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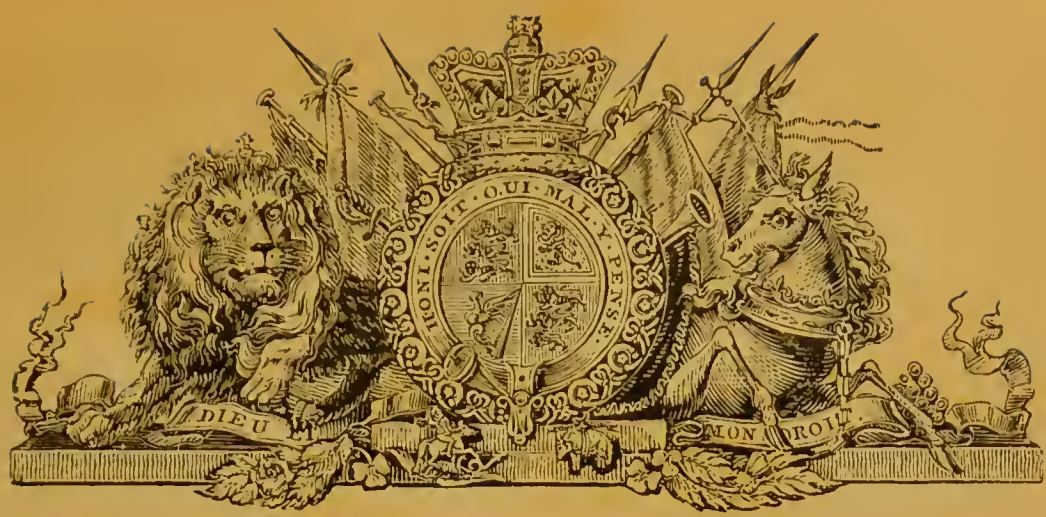

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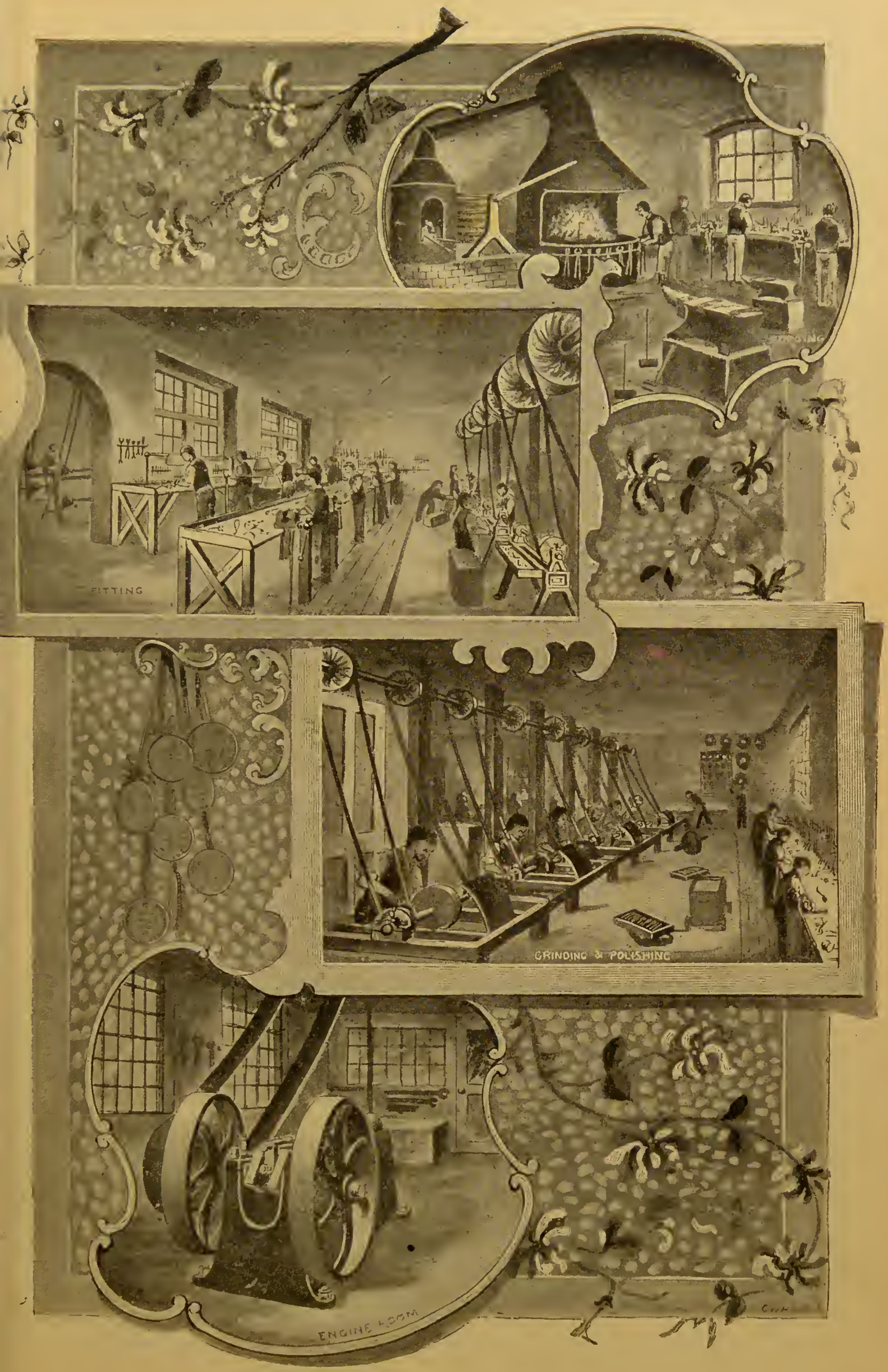
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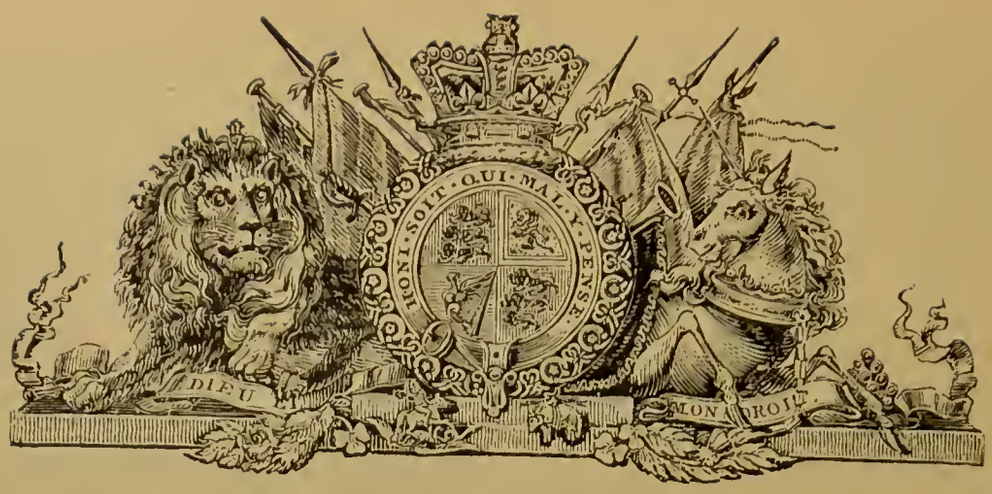

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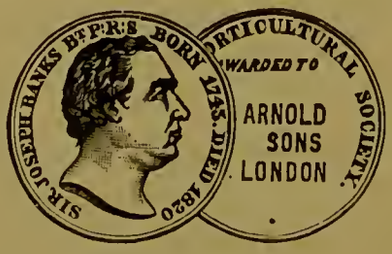

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CATALOGUE

OF

VETERINARY INSTRUMENTS.

Enema Pumps, Syringes, Douches, &c.

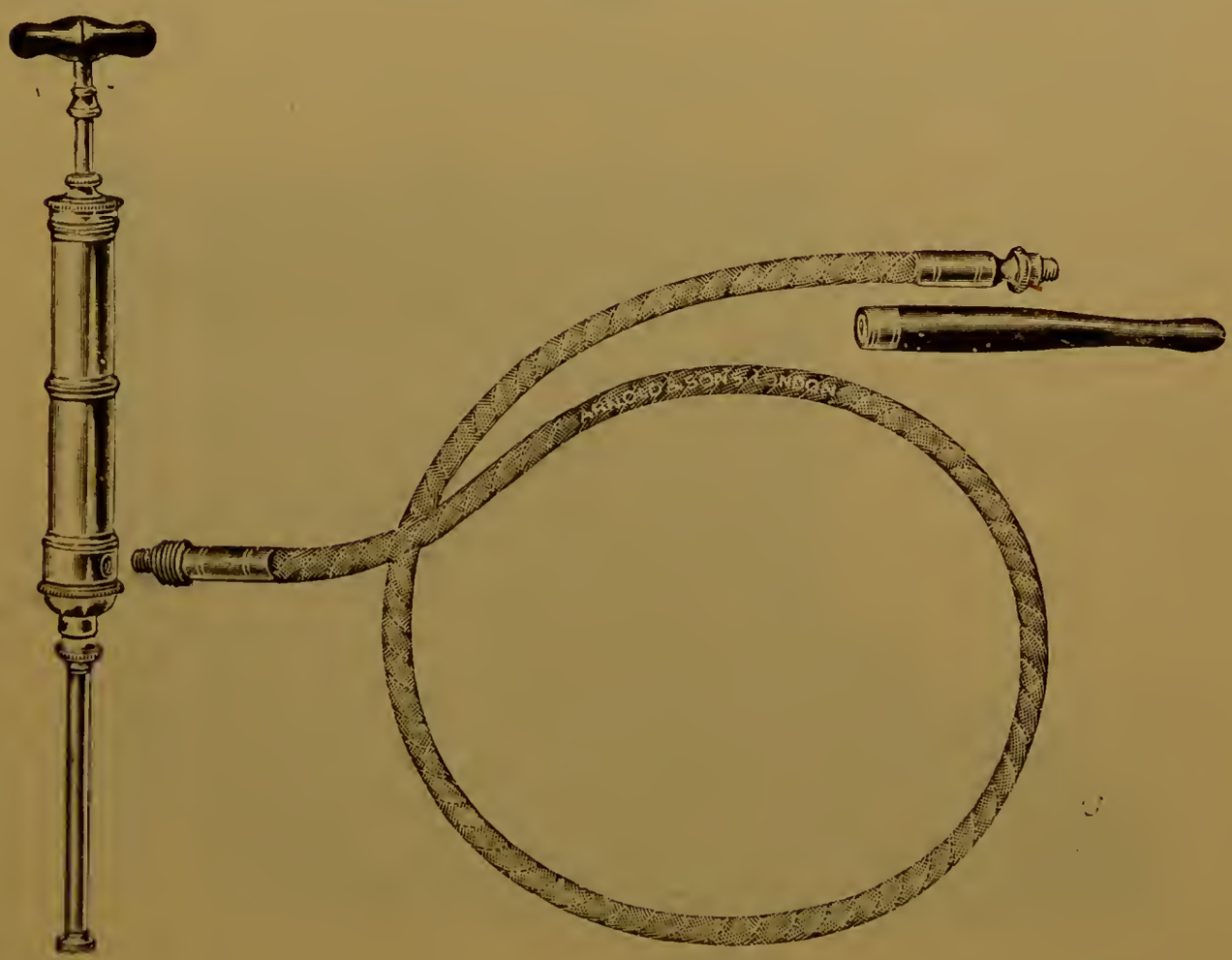


Fig. 1.

	£	s.	d.
Enema Pump, Horse, brass, with six feet superior elastic gum web tubing, ebony rectum pipe, brass mounts, &c. (Arnold & Sons' modification of Read's expired patent), in canvas bag, complete, Fig. 1	2	0	0
Ditto ditto ditto fitted in leather bag...	2	5	0

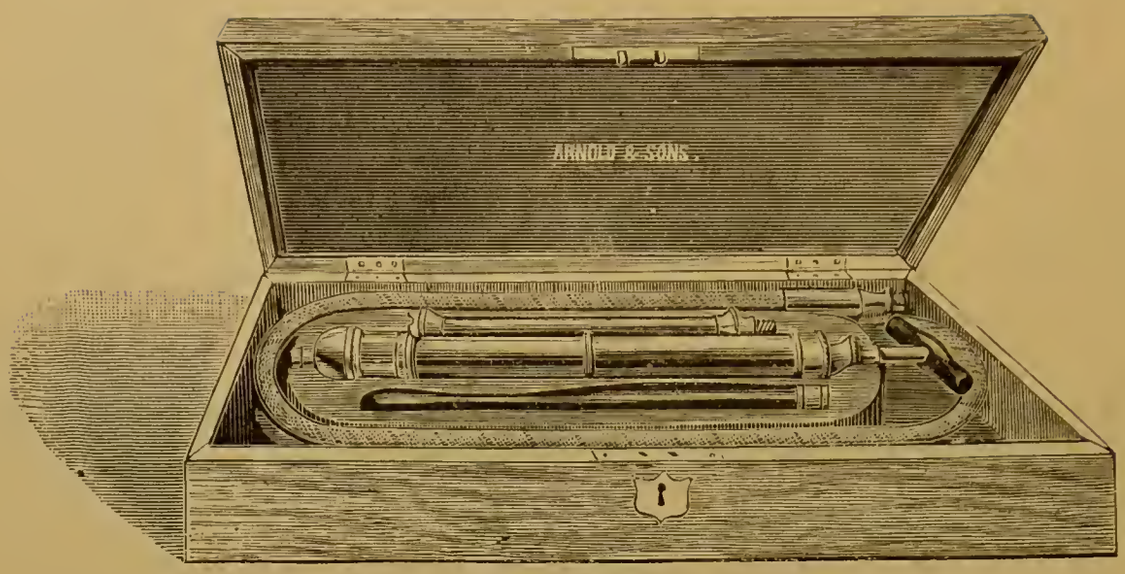


Fig. 2.

	£	s.	d.
Enema Pump, Horse, with 6 feet superior elastic gum web tubing, ebony rectum pipe, brass mounts, &c., in polished mahogany case, Fig. 2	2	12	6
Ditto ditto ditto with addition of horse catheter, with brass mount, and ebony mouth gag, in polished mahogany case, complete	3	10	0

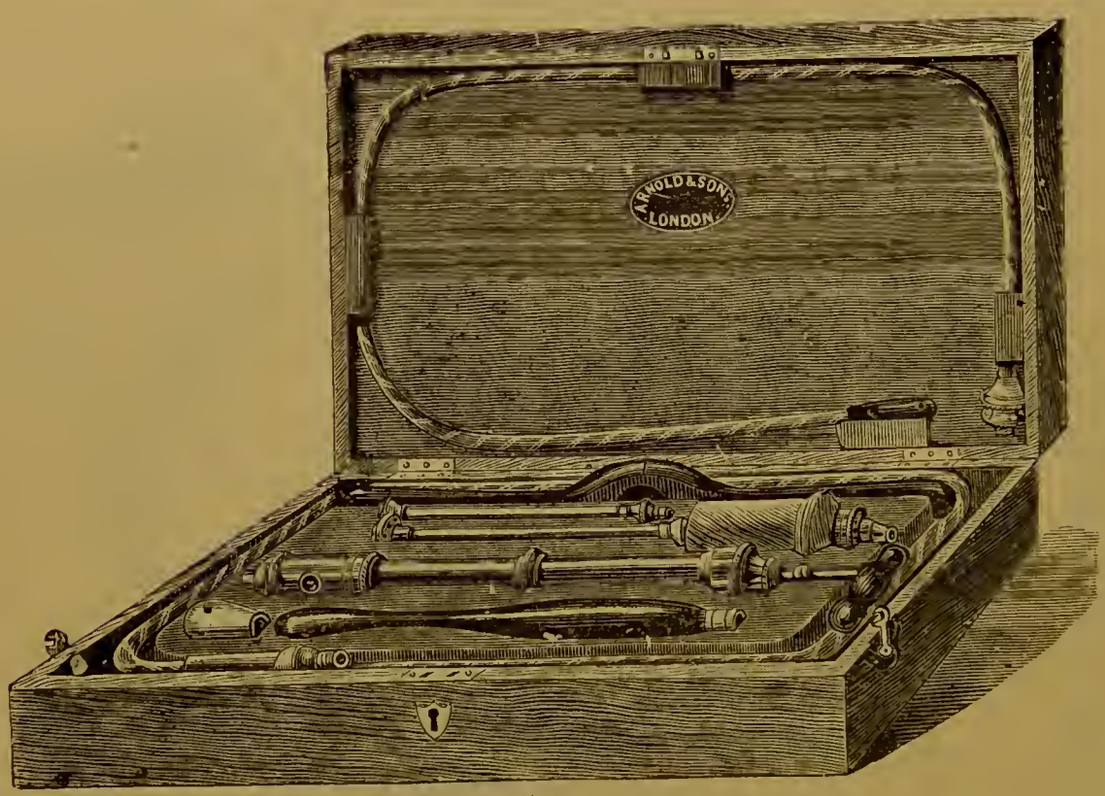


Fig. 3.

Enema Pump, Horse, Brass, with six feet superior elastic gum web tubing, ebony rectum pipe, horse catheter with brass mount, stomach bulb, ebony mouth gag, and tobacco fumigator (Arnold & Sons' modification of Read's expired patent), in polished mahogany case, Fig. 3	4	4	0
Ditto ditto ditto with addition of three ebony rectum pipes for calf, sheep, dog, &c.	4	12	6

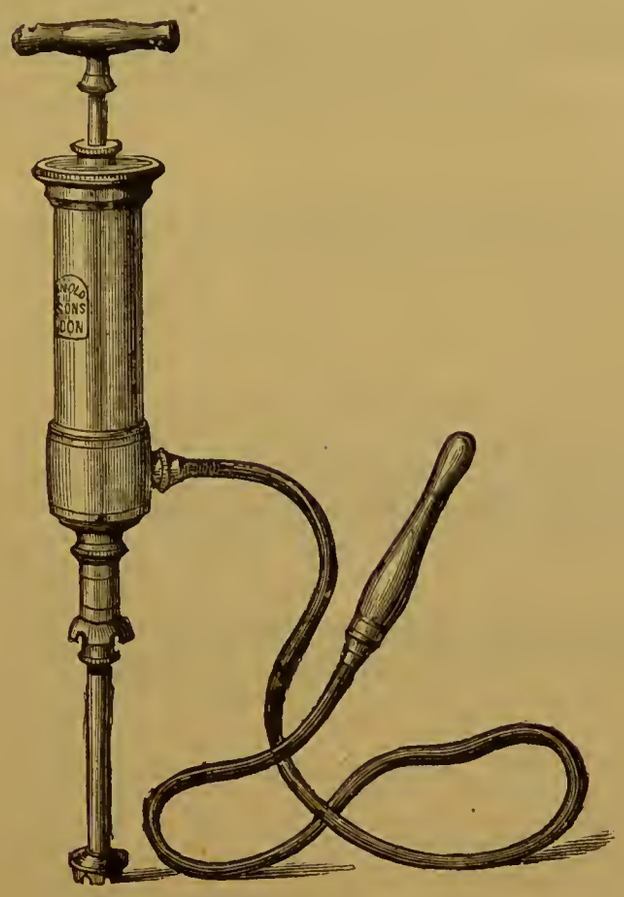


Fig. 4.

	£	s.	d.
Enema Pump (Winton's), Portable, brass, with pipes for horse, foal, sheep, &c., and india-rubber tubing, in leather bag, complete, Fig. 4	1	10	0

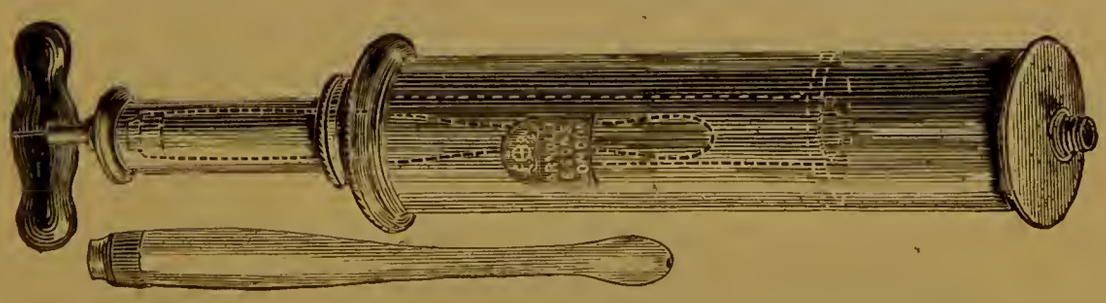


Fig. 5.

Enema Syringe, Horse, brass (Arnold & Sons'), with improved cap and piston box, and rectum pipe fitting into piston rod for portability, in canvas bag, complete, Fig. 5 ...	1 quart	1	1	0
Ditto ditto ditto	3 pints	1	7	6

Fig. 6.

		£	s	d.
Enema Syringe, brass, Arnold & Sons' improved, with rectum pipe fitting into piston rod for portability, Fig. 6, for foals	1 pint	0	12	6
Ditto ditto ditto ... ... for calves	½ pint	0	10	6
Ditto ditto ditto ... for sheep, dogs, &c.	¼ pint	0	7	6

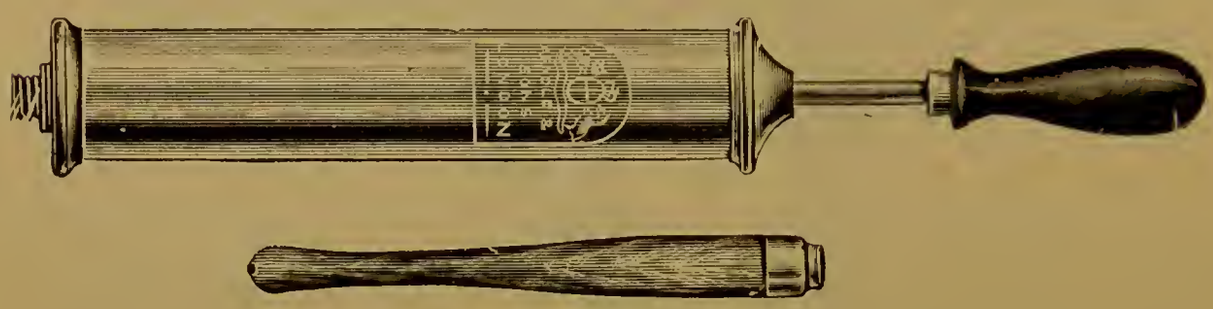


Fig. 7.

		£	s	d.
Enema Syringe, Horse, brass, with rectum pipe, plain pattern, Fig. 7	1 quart	0	16	0
Ditto ditto for foals	1 pint	0	10	6
Ditto ditto for calves	½ pint	0	7	6
Ditto ditto for sheep, dogs, &c.	¼ pint	0	5	6

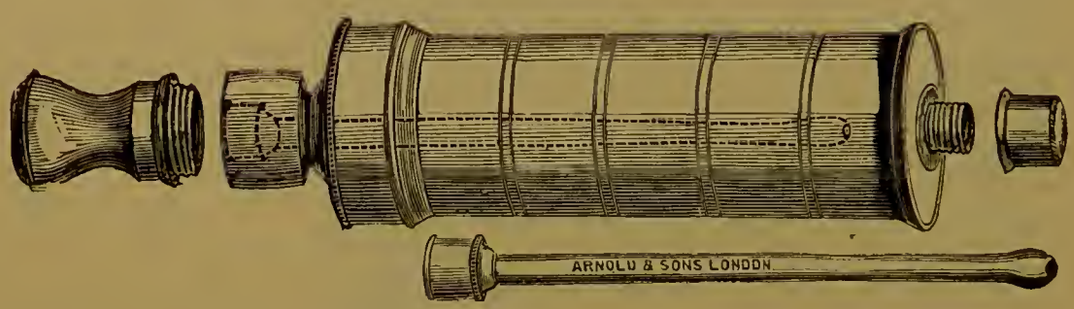


Fig. 8.

		£	s	d.
Enema Syringe, Horse, pewter, with rectum pipe fitting into piston rod for portability, Fig. 8	1 quart	1	0	0
Ditto ditto ditto ditto	3 pints	1	5	0
Ditto ditto ditto ditto	2 quarts	1	10	0
Ditto ditto for foals	1 pint	0	10	6
Ditto ditto for calves	½ pint	0	7	6

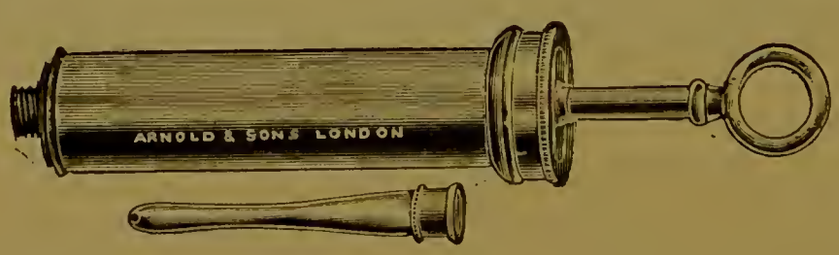


Fig. 9.

		£	s	d.
Enema Syringe, pewter, for sheep, dogs, &c., Fig. 9 ...	¼ pint	0	5	6

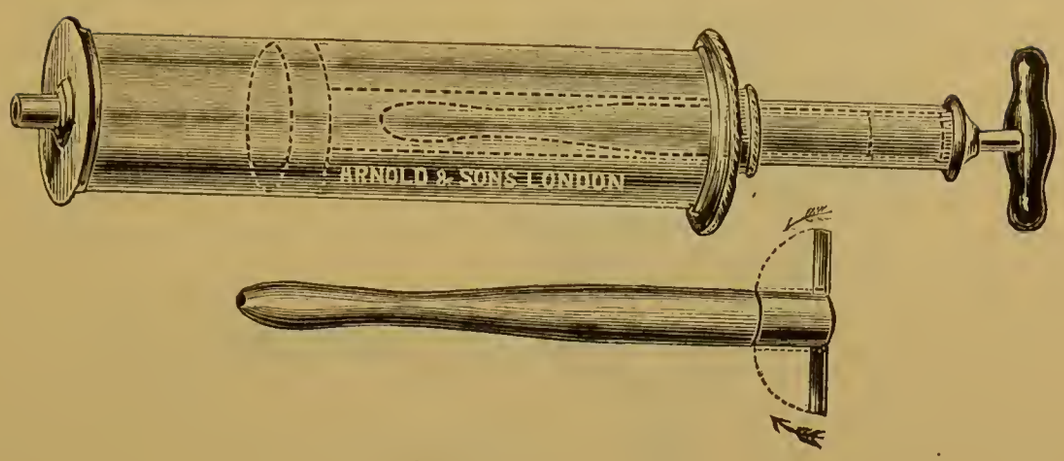


Fig. 10.

		£	s.	d.
Enema Syringe (Dowell's), Horse, brass, Fig. 10 ...	1 quart	1	5	6

The improvement in this syringe consists in the nozzle plugging on to the barrel instead of screwing. The advantage of this is that it is not necessary to withdraw the nozzle when the syringe requires refilling, the act of withdrawing the nozzle often having the effect of making the horse expel the liquid that has just been injected.

The nozzle is fitted with flanges, which give a good grip to the hand when the fluid is being forced in, and at the same time prevent the well-oiled nozzle from slipping in altogether. These flanges are made to fold down, and the nozzle can therefore be put into the piston rod as in the old syringe.

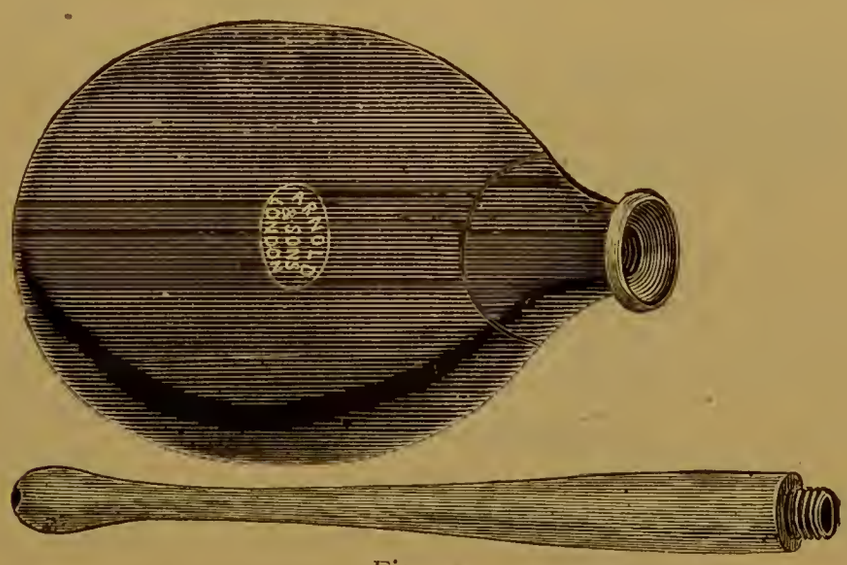


Fig. 11.

Enema Pipe, boxwood, fitted with india-rubber bag, large size, Fig. 11	0	12	6
Ditto ditto ditto ditto small size ...	0	9	6

Fig. 12.

Enema Pipes, boxwood, 12, 14, and 16 in., Fig. 12 1s. 6d., 2s. and	0	2	6

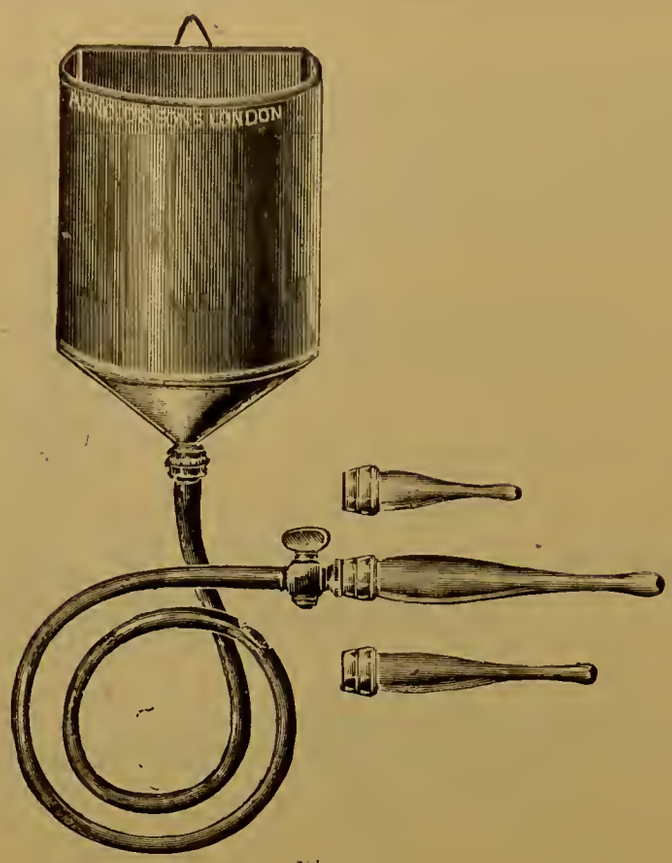


Fig. 13.

	£	s.	d.
Hydrostatic Douche, japanned tin, with india-rubber tubing, stop-cock, and three assorted rectum pipes, complete, Fig. 13, 1 gallon	1	1	0
Ditto ditto ditto ... ... 2 ditto	1	5	0

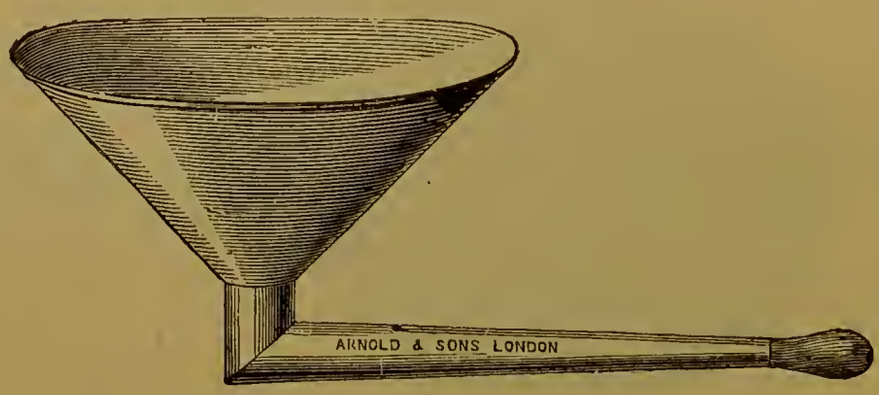


Fig. 14.

Enema Funnel, oval (Dickinson's), with boxwood mount, Fig. 14 ...	0	5	6

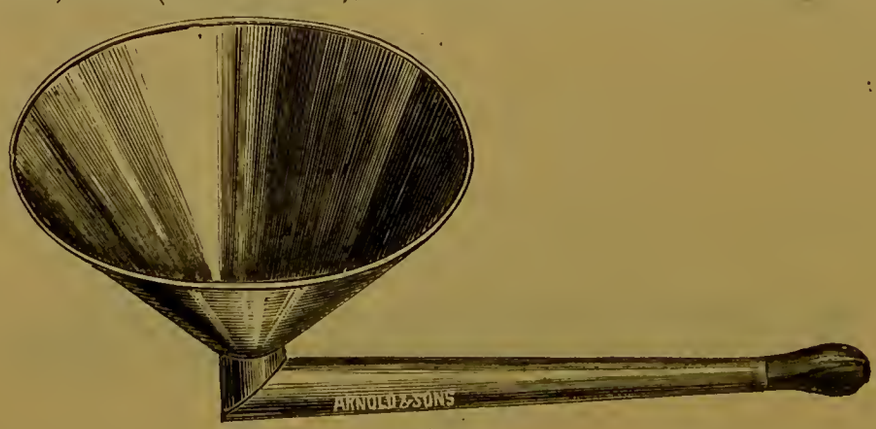


Fig. 15.

Enema Funnel, round (Gamgee's), with boxwood mount, Fig. 15 ...	0	5	6

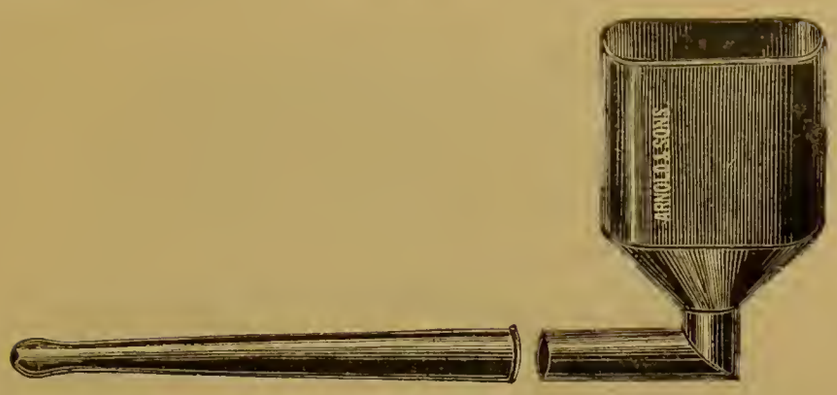


Fig. 16.

	£	s.	d.
Enema Funnel, Army pattern, japanned, with metal pipe, Fig. 16...	0	6	0

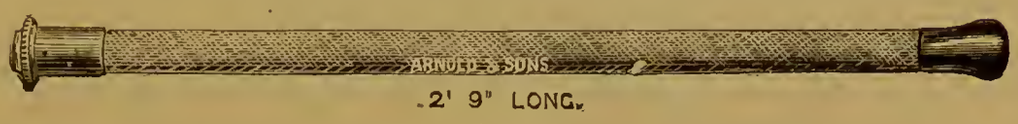


Fig. 17.

Rectum Tube (Leggett's), 2 ft. 9 ins. long, elastic gum web, with mount to attach to enema tubing, Fig. 17	0	12	6

Fig. 18.

Rectum Tube (Major Smith's), 6 feet long. elastic gum web, with mount to attach to enema tubing, Fig, 18	0	18	6

Major F. SMITH, F.R.C.V.S., writes:—This is of priceless value in cases of constipation depending upon an accumulation of fæces, or any other obstruction in the single or double colon.

Extract from "QUARTERLY JOURNAL OF VETERINARY SCIENCE IN INDIA."

I accordingly sent Messrs. Arnold a description of the tube I required. It was to be six feet in length, made of gum elastic, the same calibre as the ordinary Read's enema tubing, and was to fasten on to this tubing when the ordinary wooden nozzle was unscrewed; its extremity was to be round and perforated. Messrs. Arnold sent me the exact article, which I have no hesitation in saying saved the life of the horse whose case I have just detailed.

Fig. 19.

Dog Enema (Arnold & Sons' Patent Simplex), with india-rubber tubing, in tin box, Fig. 19	0	3	6
Ditto superior, with elastic gum web tubing, in mahogany case	0	10	0

Fig. 20.

	£	s.	d.
Stomach Syphon, for dogs, &c., with india-rubber œsophagus tube and glass funnel, Fig. 20	0	7	6

Fig. 21.

Stomach Pump and Enema combined, brass, for dogs, &c., with elastic gum œsophagus tube, rectum pipe, mouth-gag, &c., in polished mahogany case, Fig. 21	1	5	0
Ditto ditto ditto extra superior	1	10	0

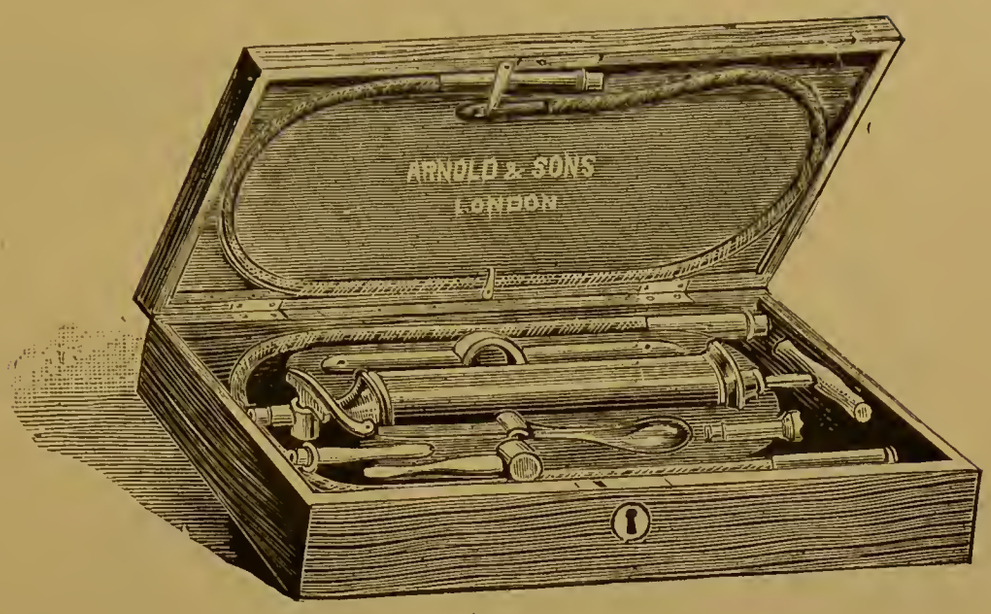


Fig. 22.

	£	s.	d.
Stomach Pump, brass, for sheep, &c., fitted with flute key lever, elastic gum œsophagus tube, and mouth-gag, in polished mahogany case, complete, Fig. 22	1	15	0

The above is invaluable for removing poisons, &c., from the stomach.

Fig. 23.

Enema or Wound Syringe, for dogs, &c., superior india-rubber, with bone rectum tube, Fig. 23

2 oz.	4 oz.	6 oz.	8 oz.	10 oz.
1/9	2/3	2/6	3/-	3/6

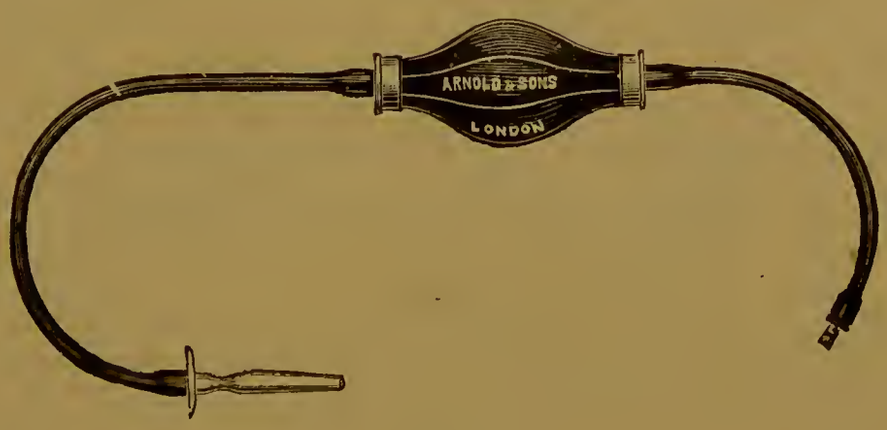


Fig. 24.

Enema or Wound Syringe (Higginson's), for dogs, &c., with bone rectum tube, in cedar box, Fig. 24	0	2	6

Fig. 25.

	£	s.	d.
Enema or Wound Syringe, for dogs, &c., white rubber, seamless, made in one continuous piece, with bone rectum tube, in cedar box, Fig. 25	0	2	6

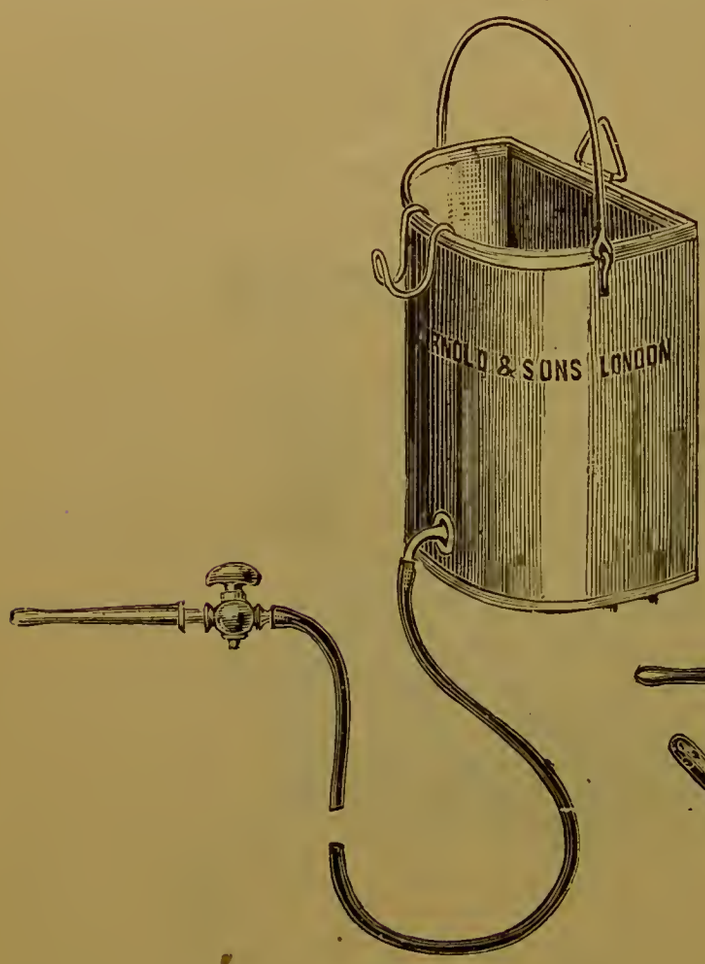


Fig. 26.

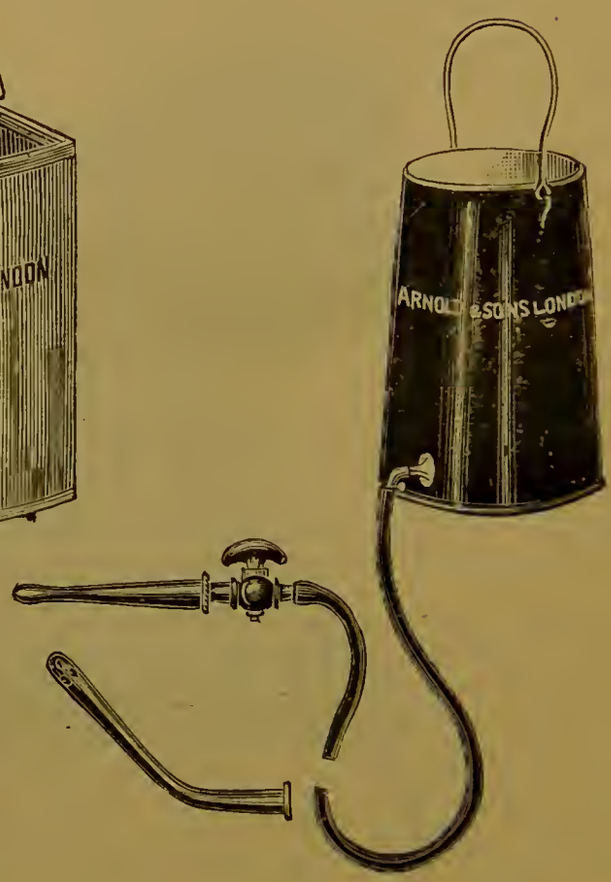


Fig. 27.

Enema or Wound Douche, Hydrostatic, zinc, with 6 feet india-rubber tubing, vulcanite stop-cock, and glass pipe, Fig. 26 ...	0	7	6
Ditto ditto ditto japanned tin and fitted with curved and straight vulcanite pipes, Fig. 27 ... ... 1 quart	0	8	6

Fig. 28.

	£	s.	d.
Wound Syringe (Bowles'), brass, with three metal bulbous pipes, various sizes, fitting into piston rod for portability, Fig. 28 ...	0	12	0
Ditto ditto ditto plain pattern	0	10	6

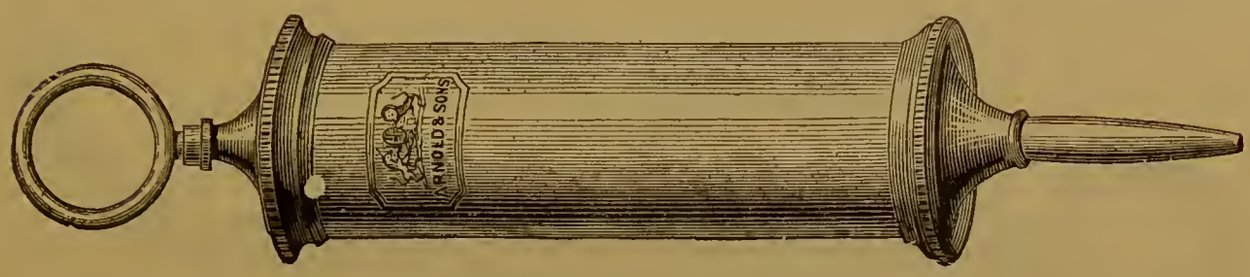


Fig. 29.

Wound Syringe, brass, with single ring, Fig. 29	2 oz.	0	7	0
Ditto ditto ditto	3 oz.	0	8	0
Ditto ditto ditto	4 oz.	0	9	0

Fitted with three rings, 1s. each extra.

Fig. 30.

Wound Syringe, aseptic, glass, with vulcanite mounts, and regulating rubber piston, Patented, Fig. 30	4 oz.	0	8	6
Ditto ditto ditto	8 oz.	0	15	0

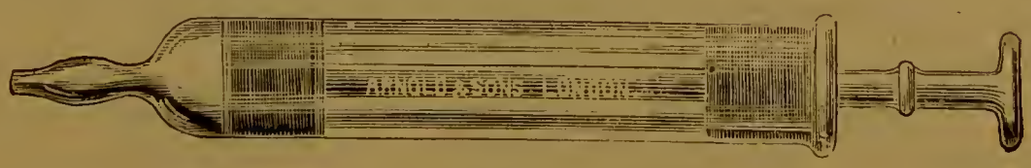


Fig. 31.

Glass Syringes, best quality, per dozen, Fig. 31.

1 oz.	2 oz.	3 oz.	4 oz.
4/-	7/6	13/6	20/-

Pewter Syringes, best quality, per doz.:—

½ oz.	1 oz.	2 oz.	3 oz.
4/6	7/-	12/-	15/-

Fig. 32.

	£	s.	d.
Injection Syringe, pewter, for glycerine, &c., Fig. 32	0	1	0

Fig. 33.

Injection Syringe, vulcanite, with glass barrel, for glycerine, &c., Fig. 33	0	2	0

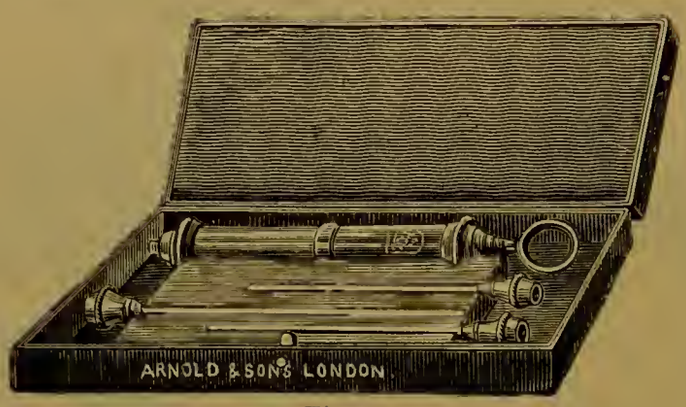


Fig. 34.

Quittor Syringe (Arnold & Sons'), brass, with three silver pipes, various sizes, in morocco leather case, complete, Fig. 34 ...	0	15	6

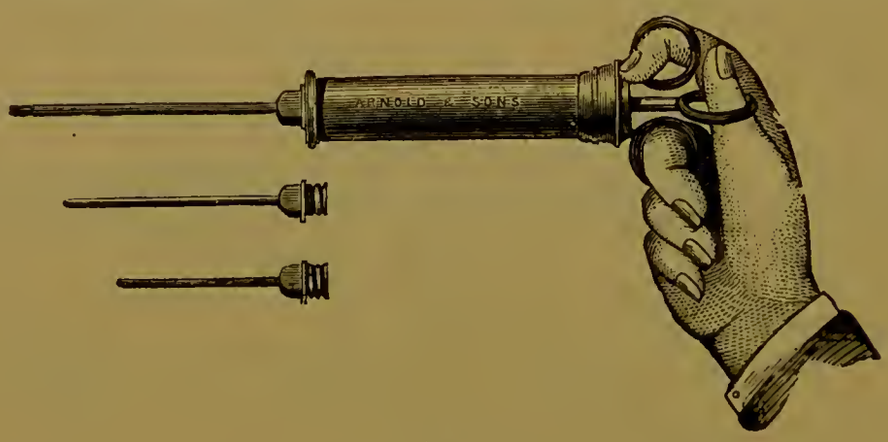


Fig. 35.

Quittor Syringe (Prof. Pritchard's), vulcanite, with finger rings and three pipes, various sizes in leather case, complete, Fig. 35 ...	0	15	6

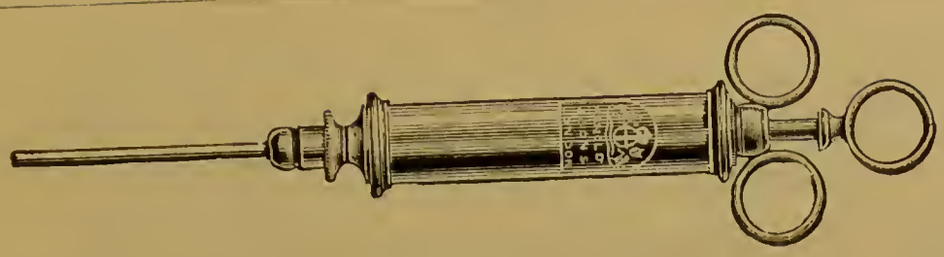


Fig. 36.

		£	s.	d.
Quittor Syringe (Arnold & Sons'), brass, with finger rings, and fitted with cylindrical or taper pipe, Fig. 36	1 oz.	0	7	0
Ditto ditto ditto	2 oz.	0	8	6

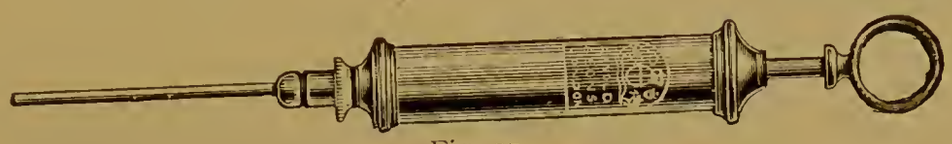


Fig. 37.

Quittor Syringe, brass, with single ring, plain pattern Fig. 37,	1 oz.	0	5	0
Ditto ditto ditto	2 oz.	0	6	6

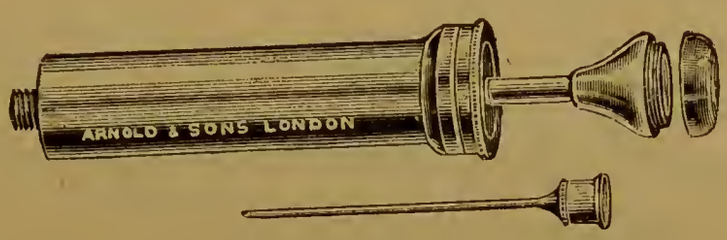


Fig. 38.

Quittor Syringe, pewter, with pipe fitting into piston rod, Fig. 38	2 oz.	0	3	6

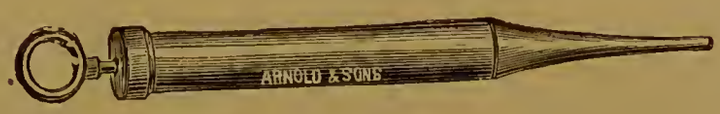


Fig. 39.

Quittor Syringe, pewter, Fig. 39	1 oz.	0	1	3
Ditto ditto	2 oz.	0	1	9

Fig. 40.

Quittor Bistoury (Prof. Robertson's), in ebony handle, Fig. 40	0	3	6

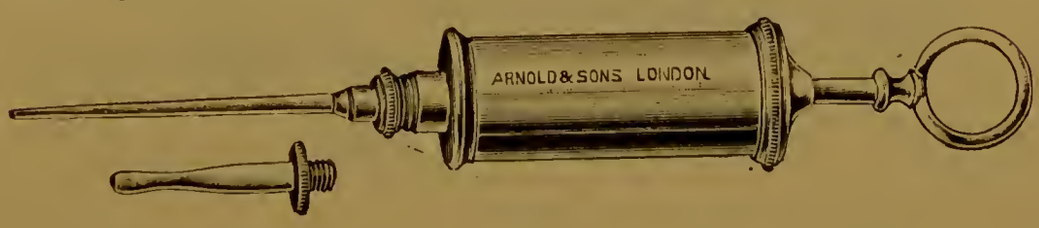


Fig. 41.

Quittor Syringe (Edgar's), pewter, with two pipes, Fig. 41 ...	2 oz.	0	4	6
Ditto ditto ditto	4 oz.	0	5	6

Hypodermic Syringes, &c.

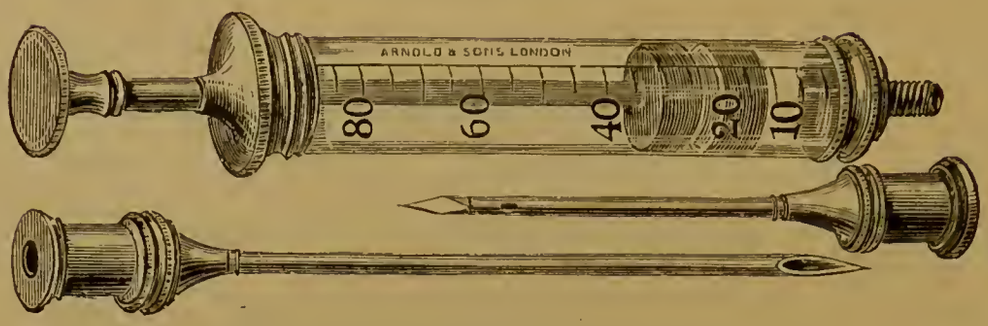


Fig. 42.

	£	s.	d.
Hypodermic Syringe (Arnold & Sons' Patent), with self-lubricating piston and two needles, in leather case, complete, Fig. 42 ... ... 80 minims	1	1	0

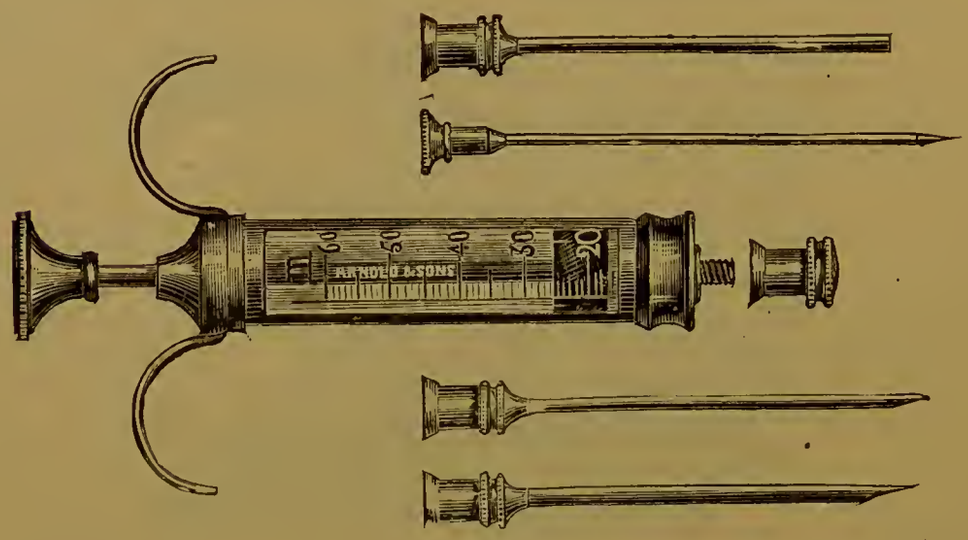


Fig. 43.

Hypodermic Syringe, with two needles, trocar, screw cap and finger clips, in leather case, complete, Fig. 43 ... ... 60 minims	1	1	0
Ditto ditto ditto with two bottles, in leather case	1	5	0

Fig. 44.

Hypodermic Syringe, for dogs, &c., vulcanite mounted, in case, Fig. 44 ... ... 20 minims	0	2	6
Ditto ditto ...ditto... with plated guarded barrel	0	4	6

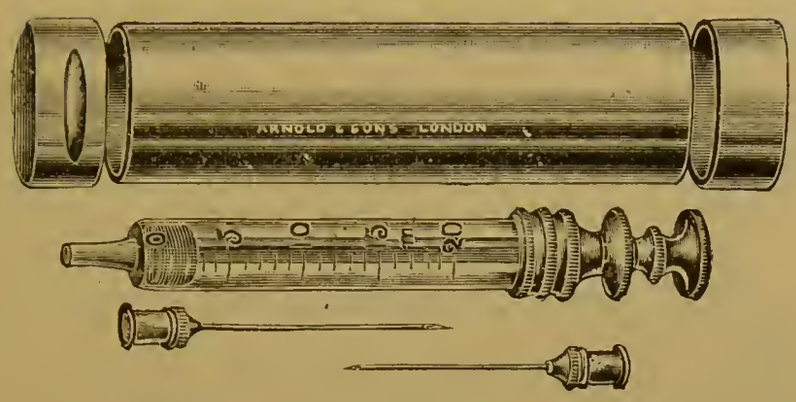


Fig. 45.

	£	s.	d.
Hypodermic Syringe, for dogs, &c., aseptic (Patented), with two needles and three spare asbestos pistons, in nickel-plated case, complete, Fig. 45 ... ... 20 minims	0	5	0

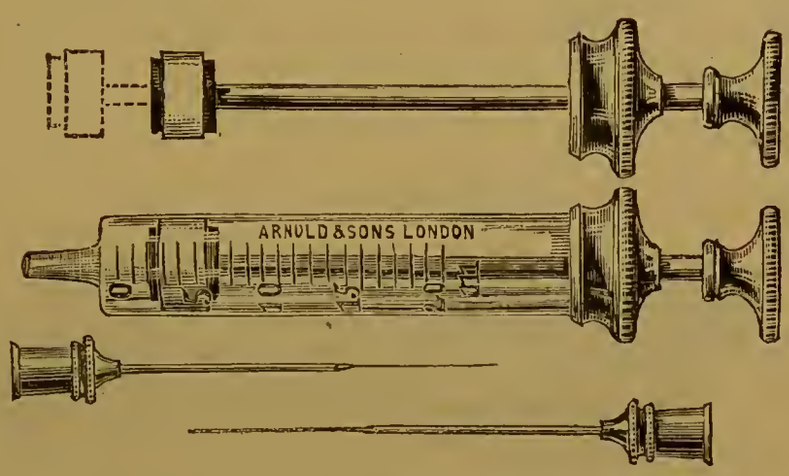


Fig. 46.

Hypodermic Syringe (Bokenham's), for dogs, &c., aseptic, latest pattern, Patented, with two steel needles, spare glass barrel, and three spare asbestos pistons, in leather case, Fig. 46, 20 minims	0	7	6

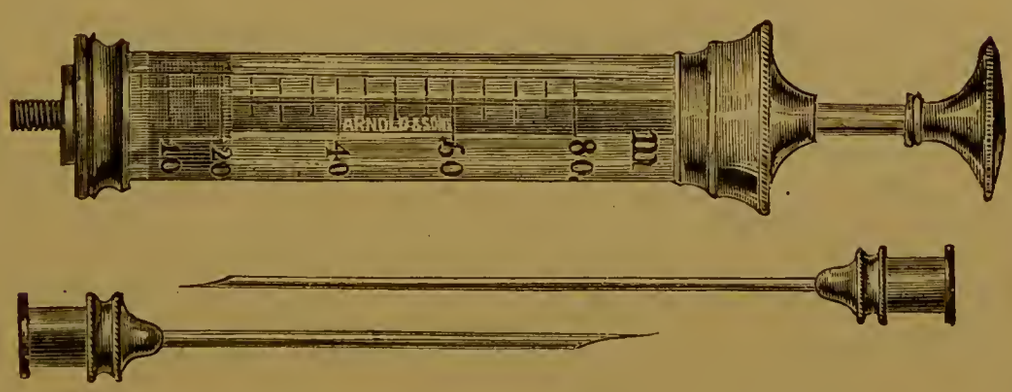


Fig. 47.

Hypodermic Syringe, with two steel needles, in leather case, complete ... ... 60 minims	0	12	6
Ditto ditto ditto Fig. 47 ... ... 80 minims	0	15	0
Ditto ditto vulcanite mounted, with two steel needles, in leather case	0	6	0

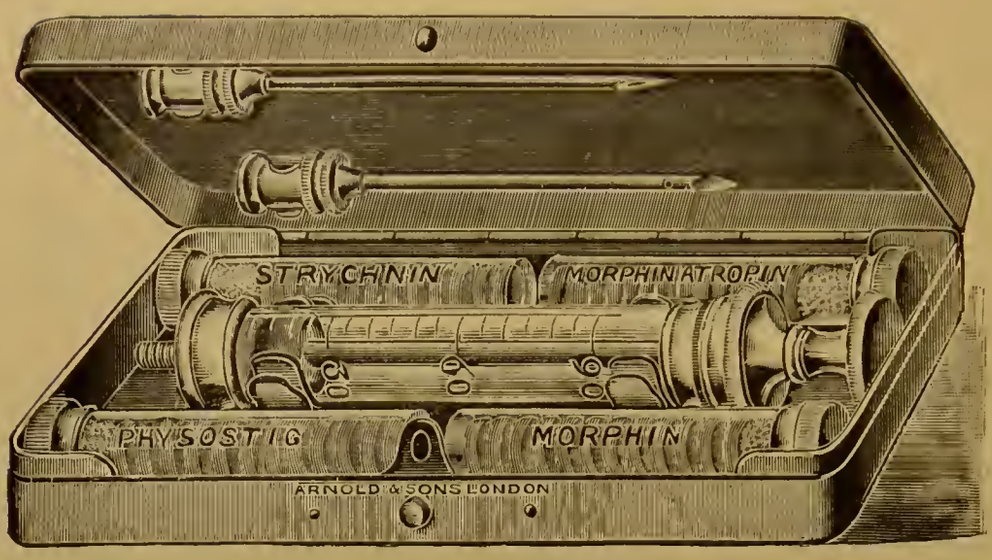


Fig. 48.

	£	s.	d.
Hypodermic Syringe, with two steel needles, and four glass bottles for Tabloids, in aseptic metal nickel plated case, complete, Fig. 48 ... ... 90 minims	1	5	0

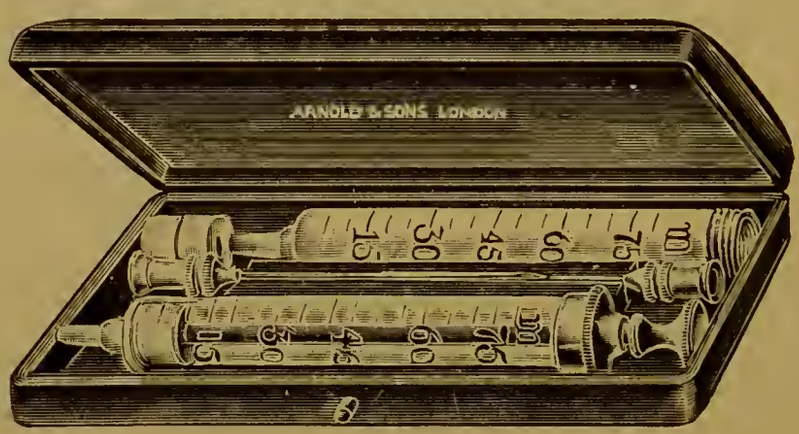
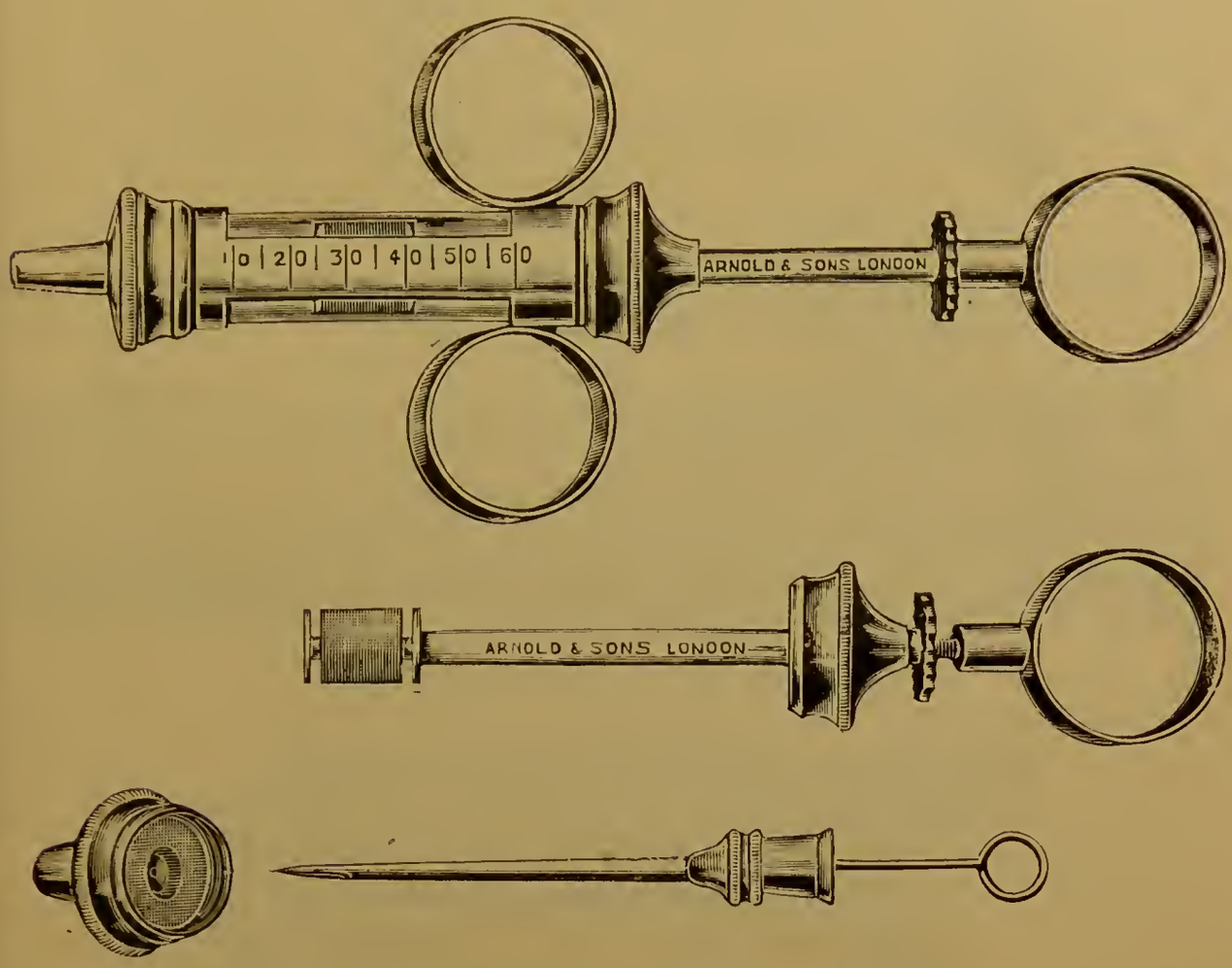


Fig. 49.

Hypodermic Syringe, for Tuberculin and Mallein, with two steel needles, asbestos piston, two spare pistons, and extra glass barrel, in leather case, complete, Fig. 49 ... 75 minims	0	10	6
Ditto ditto for Tetanin ... ... 150 minims	0	15	0
Tuberculin, Bottle, containing 1 dose	0	1	2
Ditto ditto 6 doses	0	5	0
Mallein, Bottle, containing 1 dose	0	1	0
Ditto ditto 6 doses	0	5	0
Tetanin, Bottle, containing 1 dose	0	2	6

Special quotation for large quantities.



(MOUNT WITH ASBESTOS WASHER IN SITU).

Fig. 50.	£	s.	d.
Hypodermic Syringe (Haslam's), aseptic, army pattern, as supplied to Her Majesty's Government, in leather case, complete, Fig. 50	1	7	6
Ditto ditto ditto in aseptic metal case...	1	10	0

Extract from "VETERINARY RECORD."

After laying aside the hypodermic syringe for a time, many practitioners have come to their instrument case to find the syringe is out of order, and that it cannot be coaxed to work properly! It leaks, owing to a flaw in the needle, or to the lacquer between mount and glass barrel having melted, or the leather piston is "perished." Others have ceased to use a hypodermic in disgust, because they find the needles constantly bending or breaking, or the syringe is dirty, full of mould, and uncleanable.

To remedy these defects and to obtain a syringe that would stand high pressure, and which could be used about the legs of a fidgety animal, I set about two years ago to get an improved syringe. The result is the evolution of the specimen in my hand, and what I would like to term the "extinct forms" I have also here to-night. I invite your inspection to all, in the hope that the "struggle" for the ideal, as illustrated by these links, may help you to improve on my own endeavours to meet a real want in our practice. While admitting it is not a theoretically perfect syringe, I fear my own unaided intellectual capacity will suggest no more ideas of improvement. I have tried to produce a purely veterinary syringe, meant for thick skins and for rough usage.

The syringe being sterilisable can be used for mallein and anti-toxin injections, and for experimental work. That if broken, any part can be easily and cheaply repaired. I submit it as a strong and durable instrument, and in conclusion I do not think I exceed the bounds of etiquette by saying that I believe it to be excellently made by ARNOLD & SONS. I am indebted to ARNOLD & SONS for some suggestions from other syringes, and for the loan of these specimens here to-night.

There are three points in Captain Haslam's Syringe which commend themselves. In the first place, the needle is capable of penetrating the densest tissues without bending; secondly the plunger claims to have a resisting power so that no fluid can get behind it; and thirdly the syringe can be used as no ordinary syringe can be—with one hand.

I may also add I have no interest whatever in the sale of the instrument, but I am proud to be able to tell you that the head of my service has ordered its adoption for the Army Veterinary Department in the future.

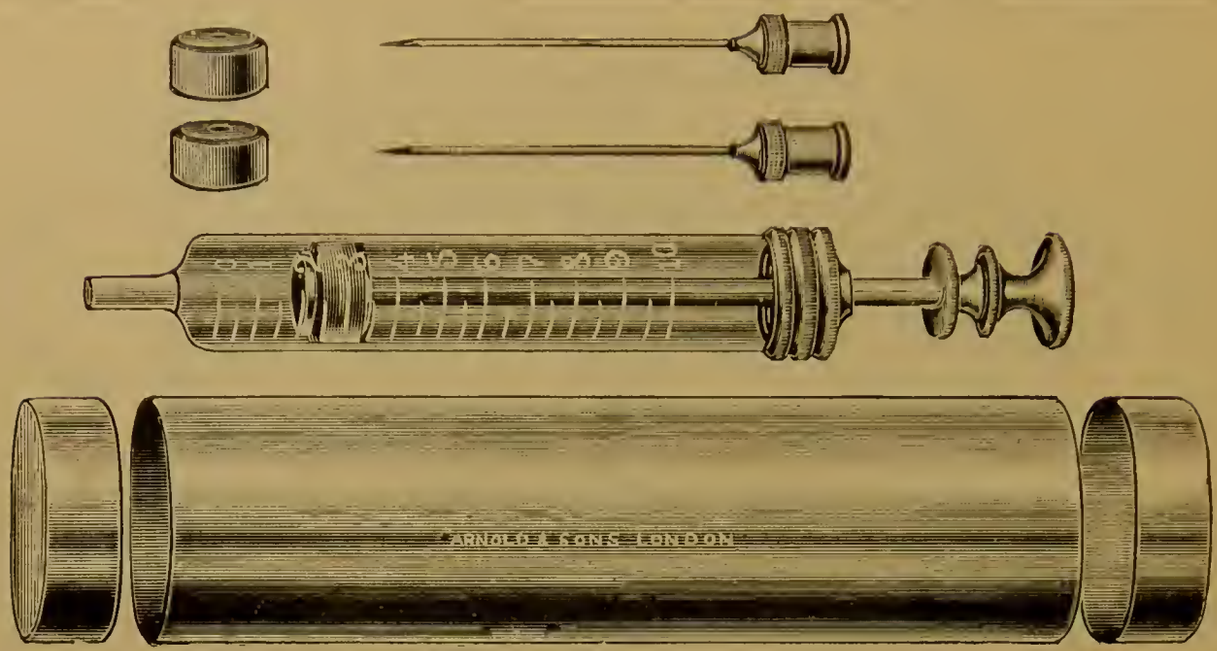


Fig. 51.

	£	s.	d
Hypodermic Syringe, aseptic, with two needles, asbestos piston, and spare pistons, in oval nickel-plated case, complete, Fig. 51 10 cc.	0	8	6

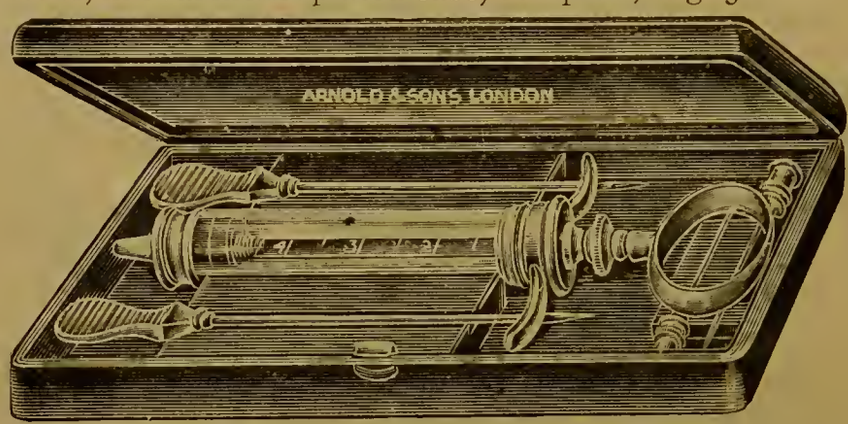


Fig. 52.

Hypodermic Syringe, for quarter evil vaccine, in leather case, complete, Fig. 52	1	10	0
Pestle and Mortar (2 oz.) for use with above	0	2	0

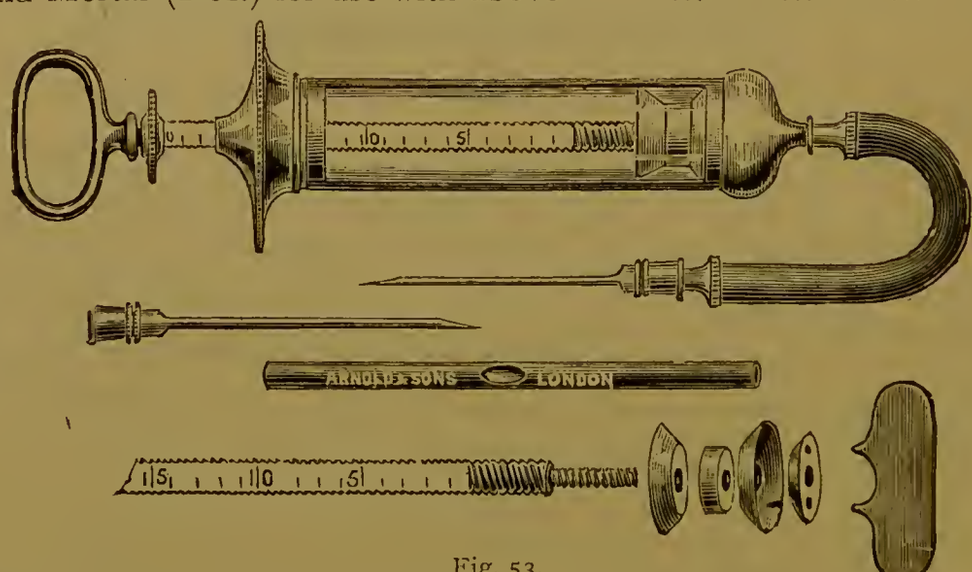


Fig. 53.

Hypodermic Syringe (Roux's), aseptic, with two needles, india-rubber piston and tubing, in nickel plated case, complete, Fig. 53 ... ... 20 cc.	1	5	0

Post-mortem, Dissecting and Biological Instruments, &c.

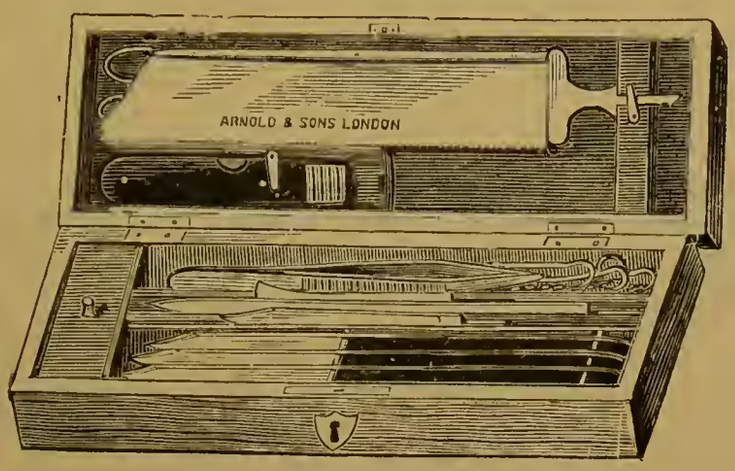


Fig. 54.

Post-mortem Instruments in polished mahogany case, Fig. 54, containing :—

Saw, Cartilage Knife, Catlin, and Chisel, fitting one spring socket ebony handle.
Spring Forceps.
Post-mortem Scissors.
Three Scalpels, in ebony handles.
Set of Chain Hooks.
Post-mortem Needle.

	£	s.	d.
The above set, complete	2	2	0

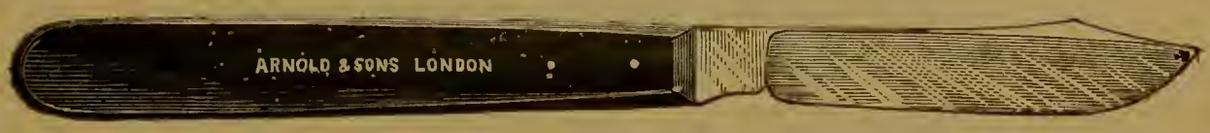


Fig. 55.

Post-mortem Scalpel, ebony handle, Fig. 55	0	2	6
Ditto ditto aseptic metal handle	0	3	0

Fig. 56.

Post-mortem Scalpel, scale-tang, in ebony handle, Fig. 56	0	3	6

Fig. 57.

Cartilage Knife, in ebony handle, Fig. 57 ... ... 4s. 6d. and	0	5	6

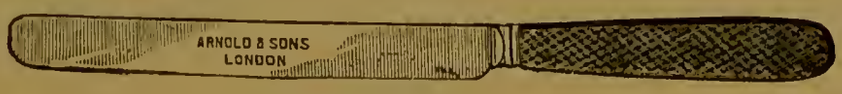


Fig. 58.

Brain Knife, in chequered ebony handle, Fig. 58	0	6	0

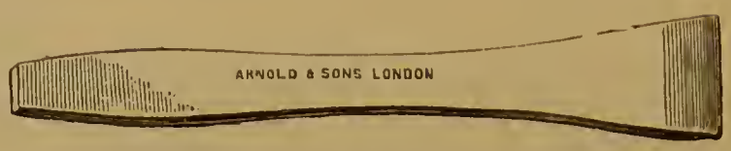


Fig. 59.

	£	s.	d.
Post-mortem Chisel, Fig. 59	0	2	6

Fig. 60.

Post-mortem Hammer and Chisel, steel chequered handle, Fig. 60...	0	8	6

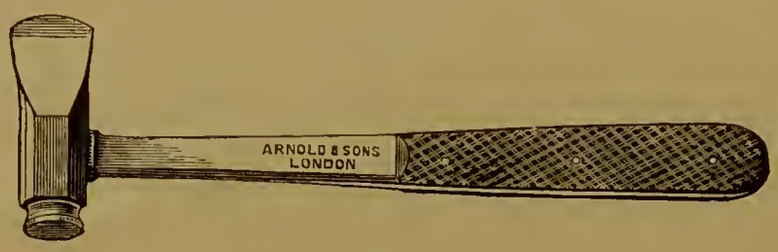


Fig. 61.

Post-mortem Hammer and Chisel, Fig. 61	0	9	0

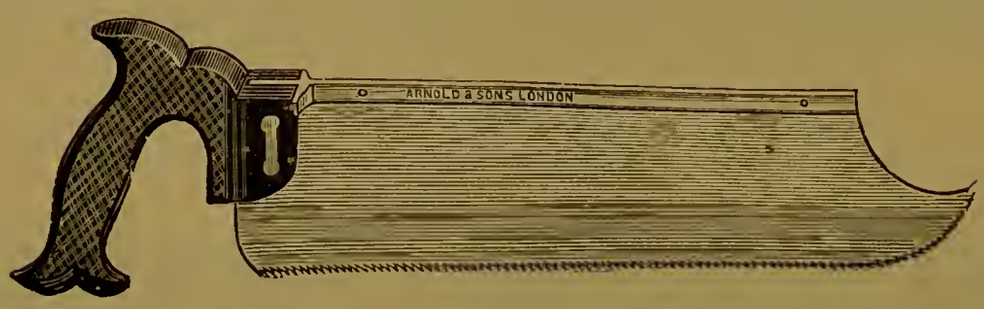


Fig. 62.

Post-mortem Saw, with ebony handle, Fig. 62	0	12	0
Ditto ditto with aseptic metal handle	0	16	6

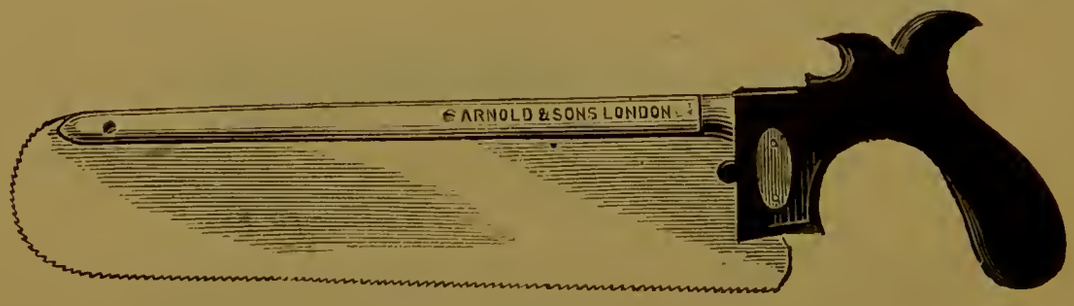


Fig. 63.

Post-mortem Saw, extra large and strong, with ebony handle, Fig. 63	0	15	6
Ditto ditto ditto with aseptic metal handle	0	19	6

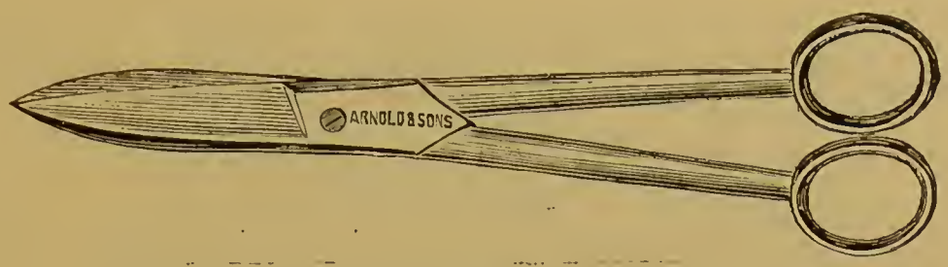


Fig. 64.

	£	s.	d
Post-mortem Scissors, Fig. 64	0	3	6

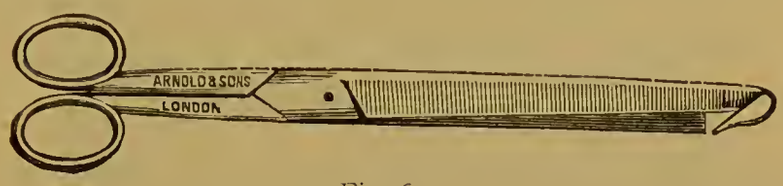


Fig. 65.

Bowel Scissors, Fig. 65...	0	8	6

Fig. 66.

Post-mortem Gloves, pure india-rubber, Fig. 66 ... per pair	0	7	6
Ditto ditto ditto with gauntlets ... ditto	0	10	6

Fig. 67.

Blunt or Sharp Hook, in ebony handle, Fig. 67	0	2	0
Ditto aseptic, forged entirely out of solid steel, nickel plated	0	3	0

Fig. 68.

Post-mortem Mallet, boxwood, Fig. 68	0	4	6
Ditto ditto Lignum vitæ	0	7	6

Fig. 69.

	£	s.	d.
Post-mortem Needle, Fig. 69	0	0	6

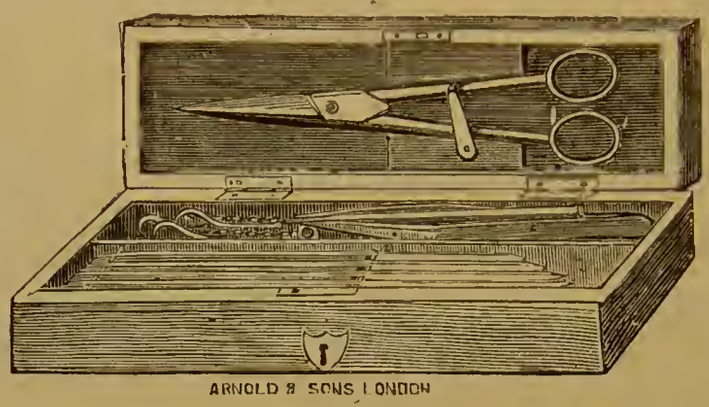


Fig. 70.

Dissecting Instruments, in mahogany case, polished throughout, Fig. 70, containing :—

Four Scalpels, in ebony handles.
Dissecting Scissors.
Ditto Forceps.
Blowpipe, German Silver.
Set of Chain Hooks.

	£	s.	d.
The above set, complete	0	16	0
Ditto ditto in ivory handles	0	18	6

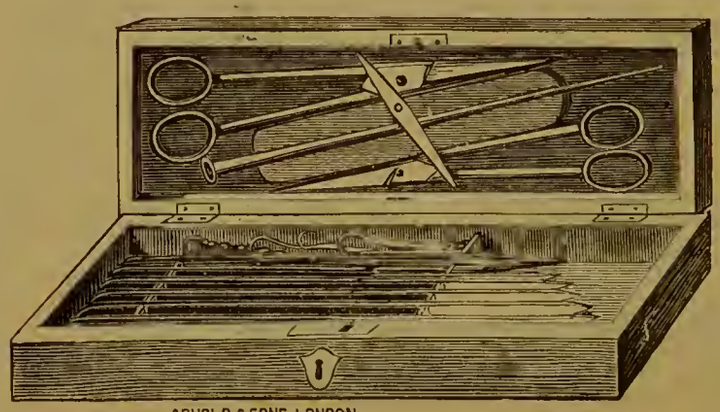


Fig. 71.

Dissecting Instruments, superior, in mahogany case, polished throughout, Fig. 71, containing :—

Six Scalpels, in ebony handles.
Dissecting Scissors, large.
Ditto ditto small.
Dissecting Forceps, large.
Blowpipe, German Silver.
Set of Chain Hooks.

	£	s.	d.
The above set, complete	1	1	0
Ditto ditto in ivory handles	1	5	0

Dissecting Instruments, Complete Set, in mahogany case, polished throughout, containing :—

Six Scalpels, in ebony handles.
Dissecting Scissors, large.
Ditto ditto small.
Ditto Forceps.
Blowpipe, improved (Nicholls's).
Dissecting Hooks, improved (Thomas's).

	£	s.	d.
The above set, complete	1	11	6
Ditto ditto in ivory handles	1	15	0

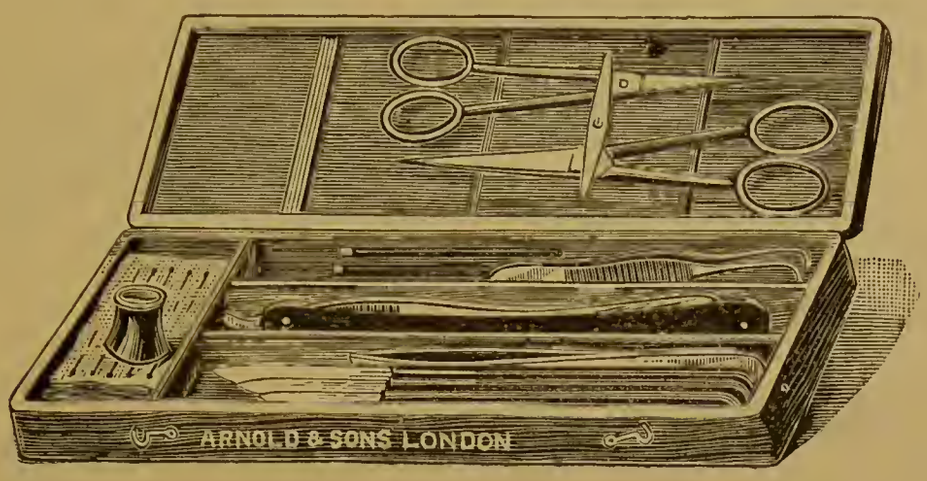


Fig. 72.

Biological or Histological Instruments (Wells'), in mahogany case, Fig. 72, containing :—

Three Scalpels, in ebony handles.
Dissecting Scissors, large.
Ditto ditto fine.
Ditto Forceps, large.
Ditto ditto fine.
Two Microscopic Needles.
Section Razor.
Seeker, in handle.
Watchmaker's Eye Glass.
Blanket Pins.
Pins.

	£	s.	d
The above set, complete	0	15	0

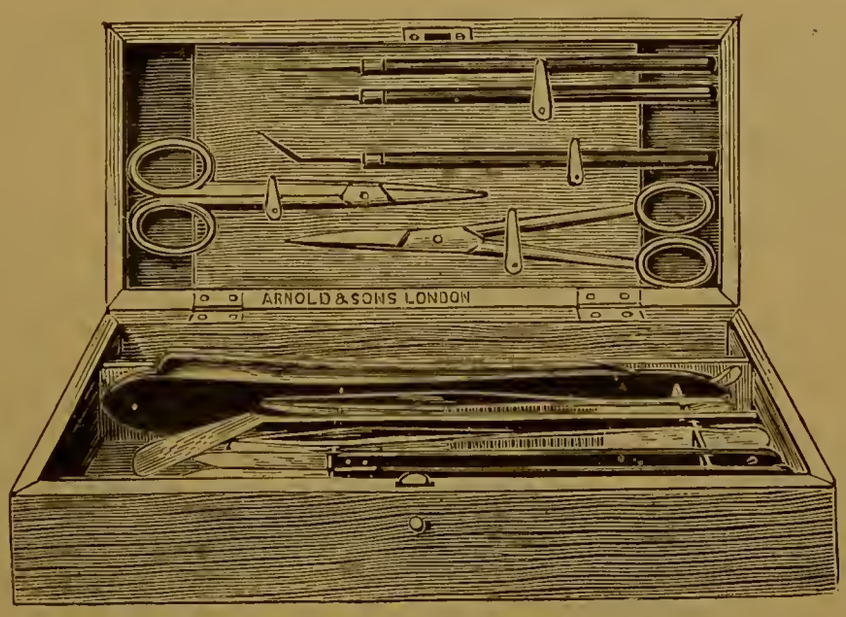


Fig. 73.

Biological or Histological Instruments, in polished mahogany case, Fig. 73, containing :—

Two Scalpels, in ebony handles.
Dissecting Scissors.
Microscopic Scissors, fine.
Ditto Forceps, broad.
Ditto ditto fine.
Section Razor.
Ditto Lifter.
Two Microscopic Needles.
Seeker, in handle.

The above set, complete	1	5	0

Bacteriological Instruments, for large and small animals, in mahogany case, containing :—

Three Scalpels, in ebony handles.
One pair Dressing Scissors, blunt pointed.
Ditto ditto sharp pointed.
Two pairs Post-mortem Scissors.
One pair Bow Dressing Forceps.
One pair Bone Forceps (6 inches).
Two pairs Dissecting Forceps, small.
One pair ditto large.
Set of Chain Hooks.

	£	s.	d.
The above set, complete	2	5	6

Fig. 74.

Blowpipe, German Silver, Fig. 74	0	1	6
Ditto ditto with Stilette (Nicholls')	0	3	6

Fig. 75.

Dissecting Forceps, spring, Fig. 75 ... ... 2s. and	0	2	6
Ditto ditto ditto fluted, nickel-plated	0	3	0

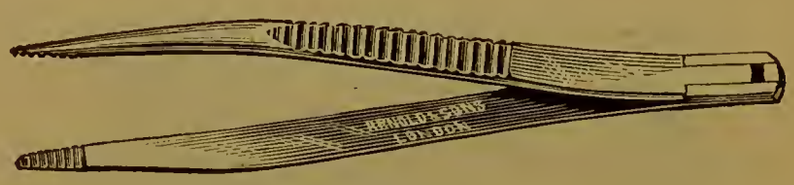


Fig. 76.

Dissecting Forceps, spring, nickel-plated, aseptic, to take apart, Fig. 76	0	3	6

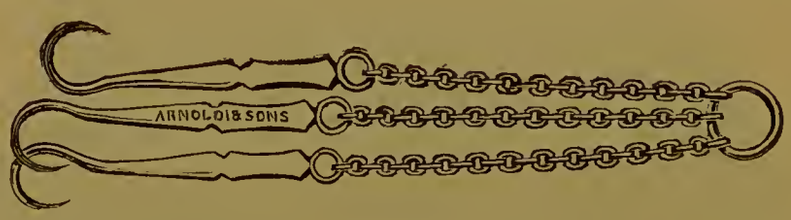


Fig. 77.

Dissecting Hooks, Fig. 77	0	2	0

Fig. 78.

Dissecting Scalpel, ebony handle, Fig. 78	0	2	0
Ditto ivory handle	0	2	6
Ditto aseptic, forged entirely out of solid steel, nickel-plated	0	2	6

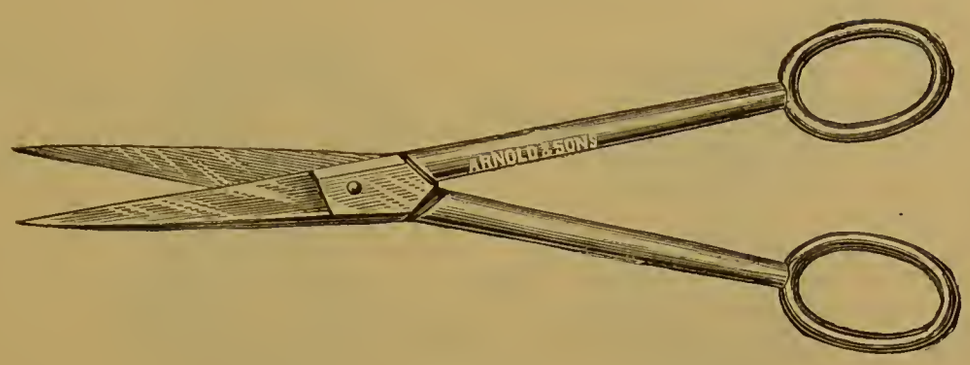


Fig. 79.

		£	s.	d.
Dissecting Scissors, Fig. 79	2s. 6d. and	0	3	0
Ditto Sleeves and Apron	... ...	0	4	0
Gutta-percha Tissue for covering subjects	per yard	0	2	0
Bandages ditto ditto	... each	0	0	6
Finger Stalls, india rubber	... ditto	0	0	3
Thumb Stalls ditto	... ditto	0	1	0

Casting Hobbles, Slings, &c.

NOTE.—*Arnold & Sons have made the manufacture of Hobbles a* spécialité; *the leather work and furniture are of the best description, made by experienced workmen on the premises. The chains are tested and stamped with the official test mark.*

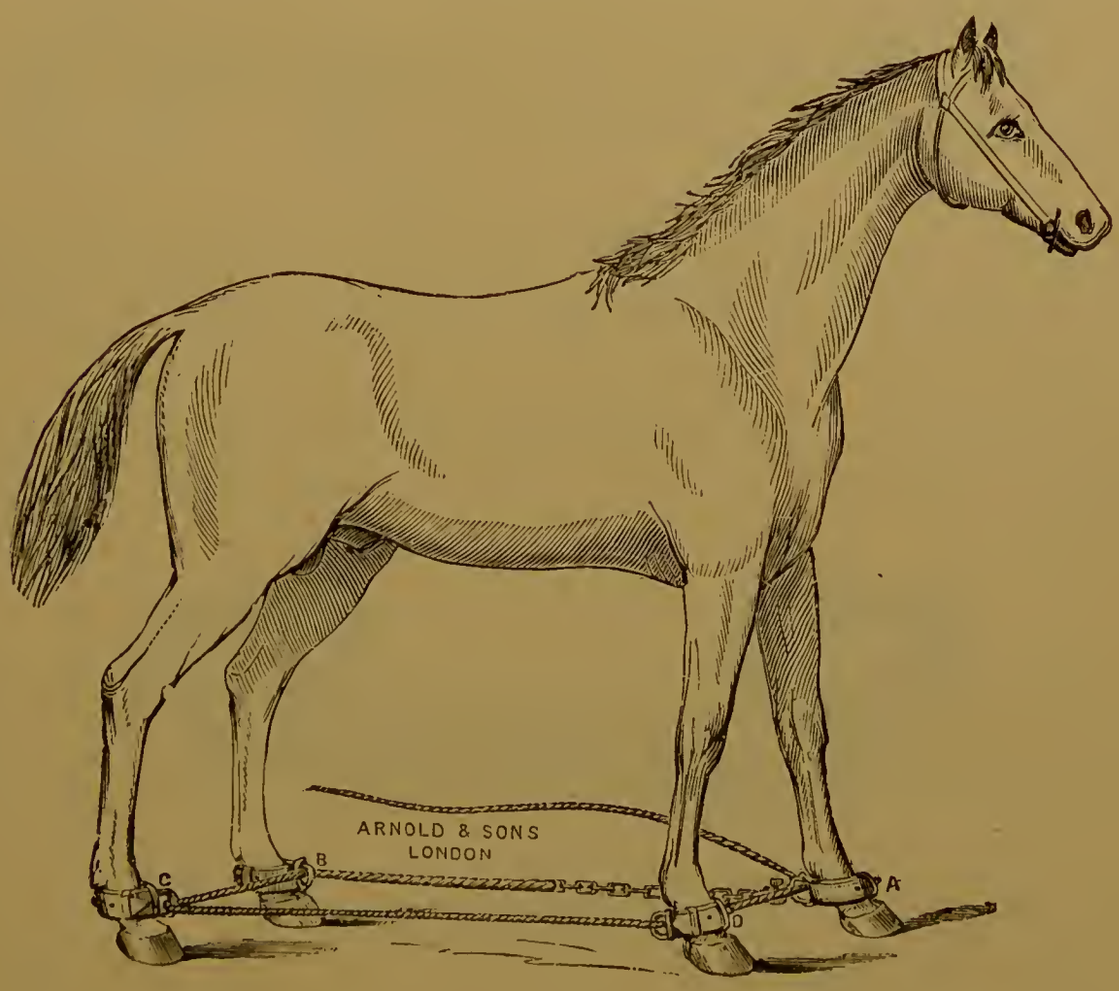


Fig. 80.

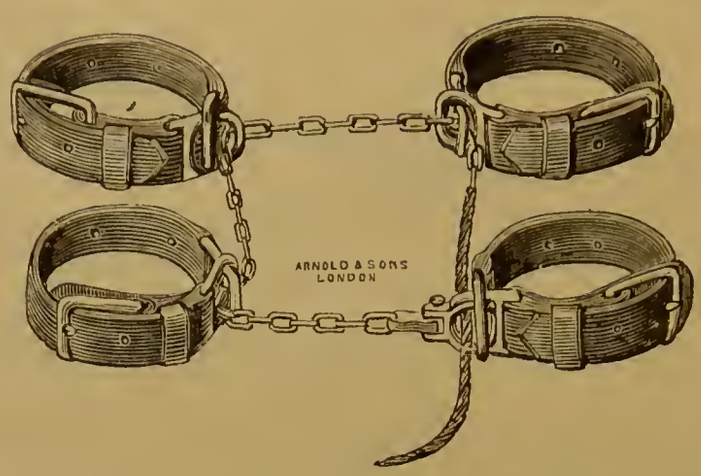


Fig. 81.

Fig. 82.

	£	s.	d.
Casting Hobbles, with rope, chain, and spring hook (Arnold & Sons' latest improvement), by which the horse is set at liberty by simply removing the screw, the furniture of best steel, and leather work lined, Fig. 80	5	0	0
Ditto ditto with cross hobbles, complete, with double swivels (Sheather's), Figs. 81 and 82	6	6	0

Extract from the "VETERINARIAN."

The simplicity with which this arrangement of the hobbles can be used, with the assistance of people who do not understand them, is an additional advantage. In conclusion I may say that Messrs. ARNOLD & SONS have kindly arranged me a set of well-lined hobbles on this plan, and I have thoroughly tested them, and can advise their construction to the profession as being safe and easily used.

Casting Hobbles, with rope, chain, and spring hook, plain pattern...	4	0	0
Ditto ditto ditto with cross hobbles complete	5	10	0

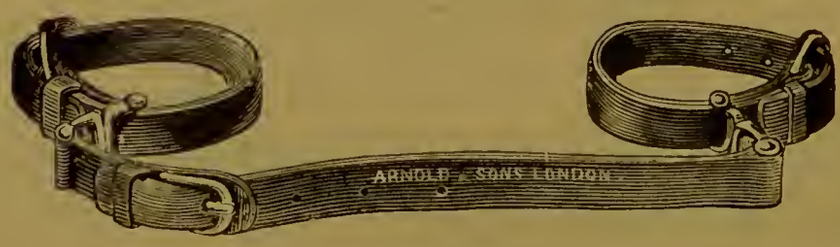


Fig. 83.

Cross Hobbles, with double swivels, Fig. 83...	2	2	0
Ditto plain pattern	1	10	0
Covering Hobbles for Mares	1	10	0

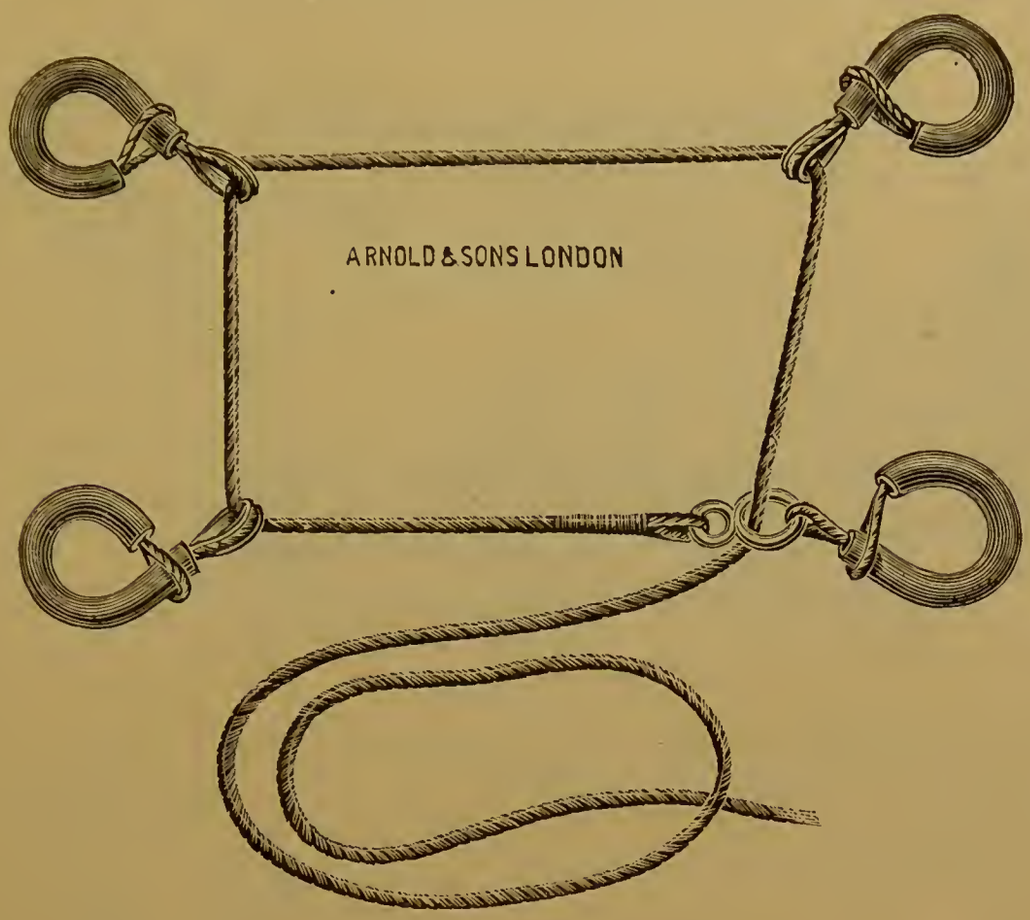


Fig. 84.

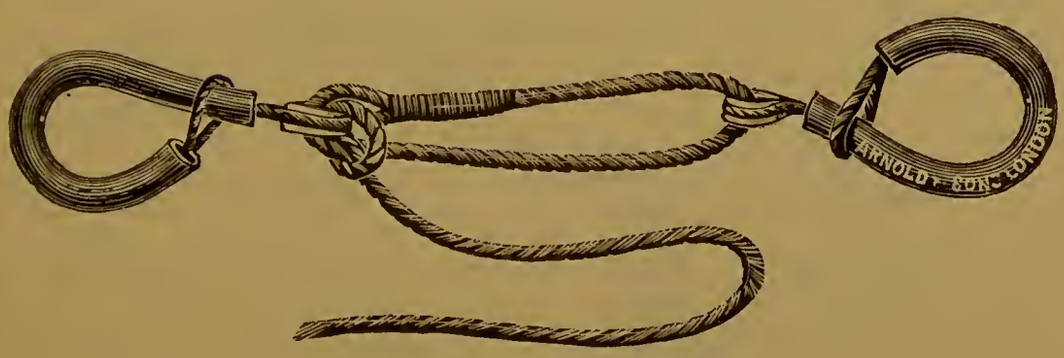


Fig. 85.

	£	s.	d.
Casting Hobbles (James' Patent), complete, Fig. 84	1	1	0
Double Cross Hobbles ditto	1	1	0
Single ditto ditto Fig. 85	0	10	6

Extract from "VETERINARIAN."

I desire to bring to the notice of the profession a novel set of casting and restraining hobbles which I have invented, and for which a provisional patent has been obtained.

The hobbles are of rope encased in rubber tubing. Made of the best materials, they are portable, extremely light, not bulky, very simple and reliable, and as all parts likely to chafe are protected, they are very durable. The rubber padding prevents any possible injury to the animal. The cross hobbles have the further advantage that when once adjusted they will not slip below the knee or hock. Messrs. ARNOLD AND SONS, West Smithfield, London, are the sole agents.

PORTABLE—weigh under 5 lbs., and occupy very little space.
RELIABLE—only best materials used in their manufacture.
DURABLE—all parts liable to chafe thoroughly protected.

The india-rubber padding prevents any injury to the animal. The cross hobbles, when once adjusted, do not slip below the knee or hock.

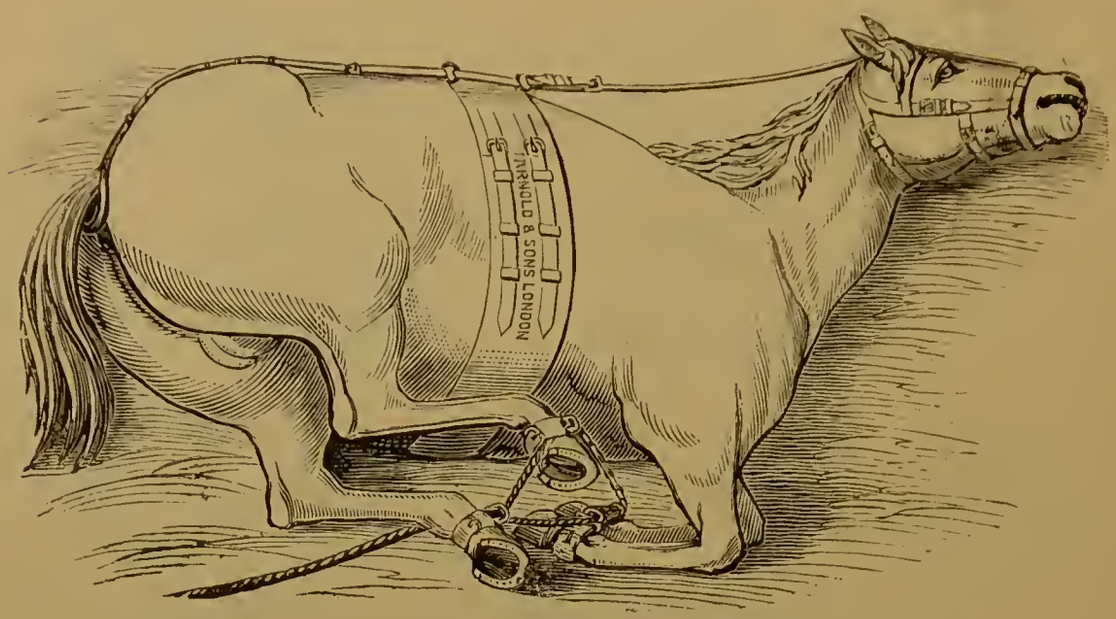


Fig. 86.

	£	s.	d.
Apparatus for preventing horses struggling and breaking their backs during operations (Major Smith's), Fig. 86	3	3	0

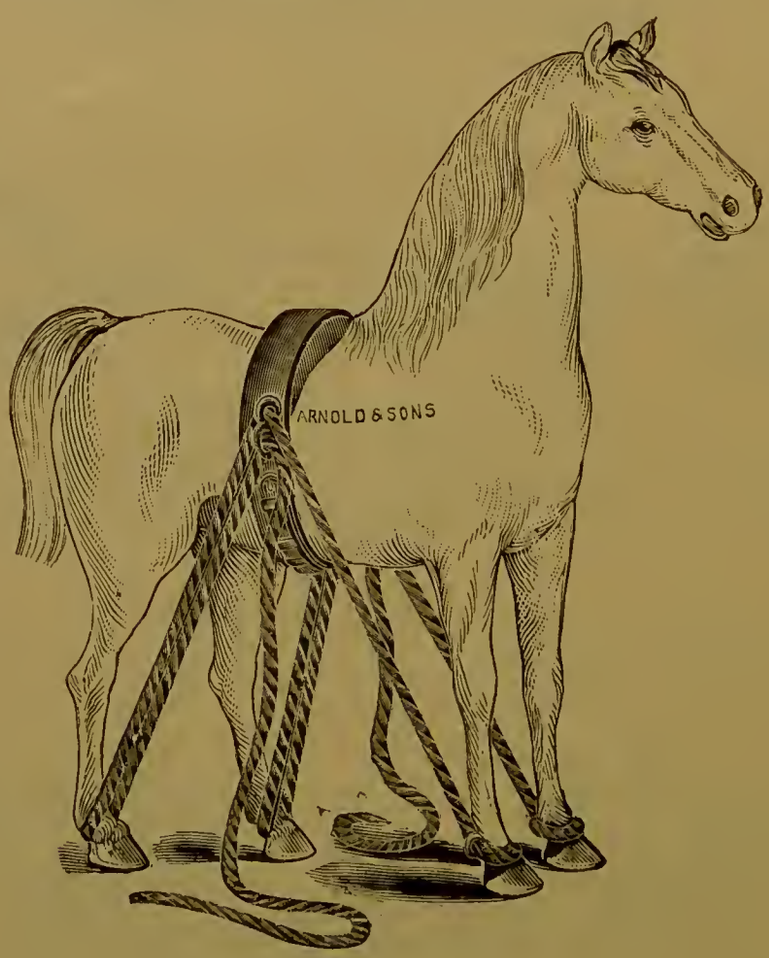
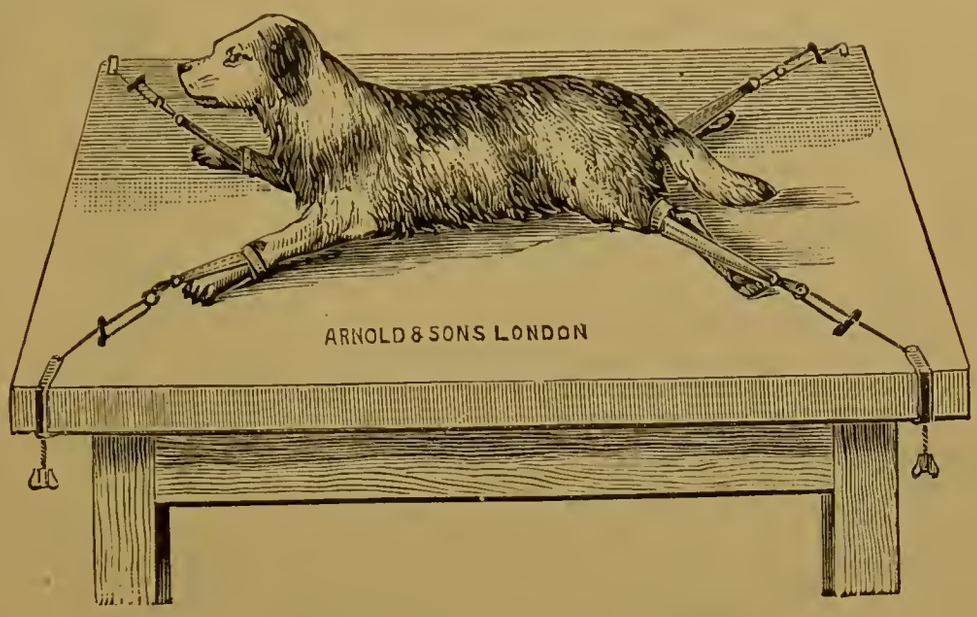


Fig. 87.

Casting Belt with Ropes (Bull's), Fig. 87	3	3	0
Casting Ropes, Twitch, and Spreader, complete (Farmer Miles' pattern)	4	12	6
Casting Ropes, Hobbles, and Neck Ropes, gun metal mounts (Farmer Miles' pattern)	3	10	0



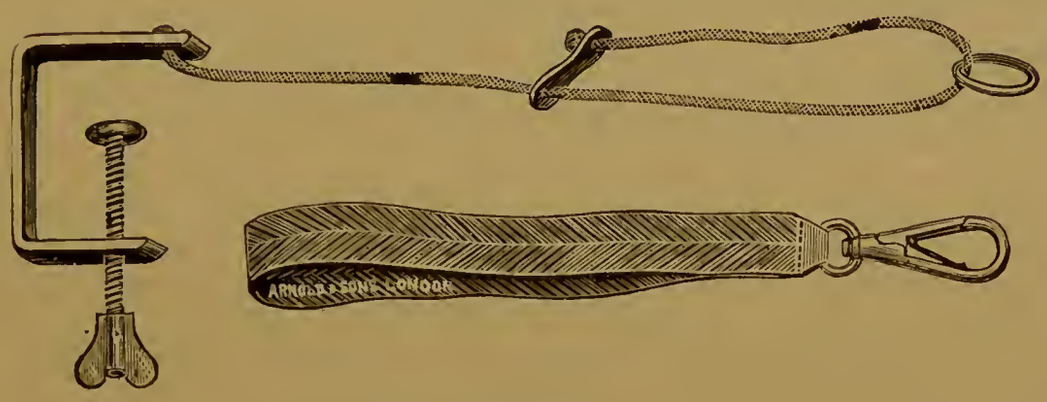


Fig. 88.

	£	s.	d.
Dog Hobbles (Prof. Hobday's), Patented, in box complete, Fig. 88	0	7	6

Extract from "THE VETERINARIAN."

Above is a description of a set of hobbles for securing dogs and other small animals, which was introduced by Prof. Hobday to the Central Veterinary Medical Society at their meeting in March last.

Each consists of a clamp of metal, to which is attached a cord, with sliding rod and ring, and a hobble made of strong webbing.

The clamps are fixed on the edges of a table or board (usually at either end), and the cords spread on the surface, with the rings towards the centre.

The animal is lifted on to the table, a hobble placed around each leg, drawn tight, and fixed by the clasp to the ring on the cords. By means of the sliding rod the cords are drawn tight, and the animal fixed in whatever position is considered necessary.

The hobbles will commend themselves to the profession for their simplicity, utility, portability, and cheapness. They occupy very little space, are easily carried in the pocket, can be fixed in a few moments to any table, or even to a stout wide board, and will fit any size of animal. Every veterinary surgeon who has had to do with dogs or cats must have experienced the difficulty in securing them to perform operations, or even to administer medicines. These hobbles perfectly overcome the difficulty, and, if properly applied, *i.e.*, just so tightly that the animal cannot struggle, there is no chance of injury. They have been thoroughly tested on a large number of varied cases, and have always given entire satisfaction, whether the dog or cat be placed on its back, side, or abdomen.

Messrs. Arnold & Sons, of West Smithfield, are the patentees and makers.

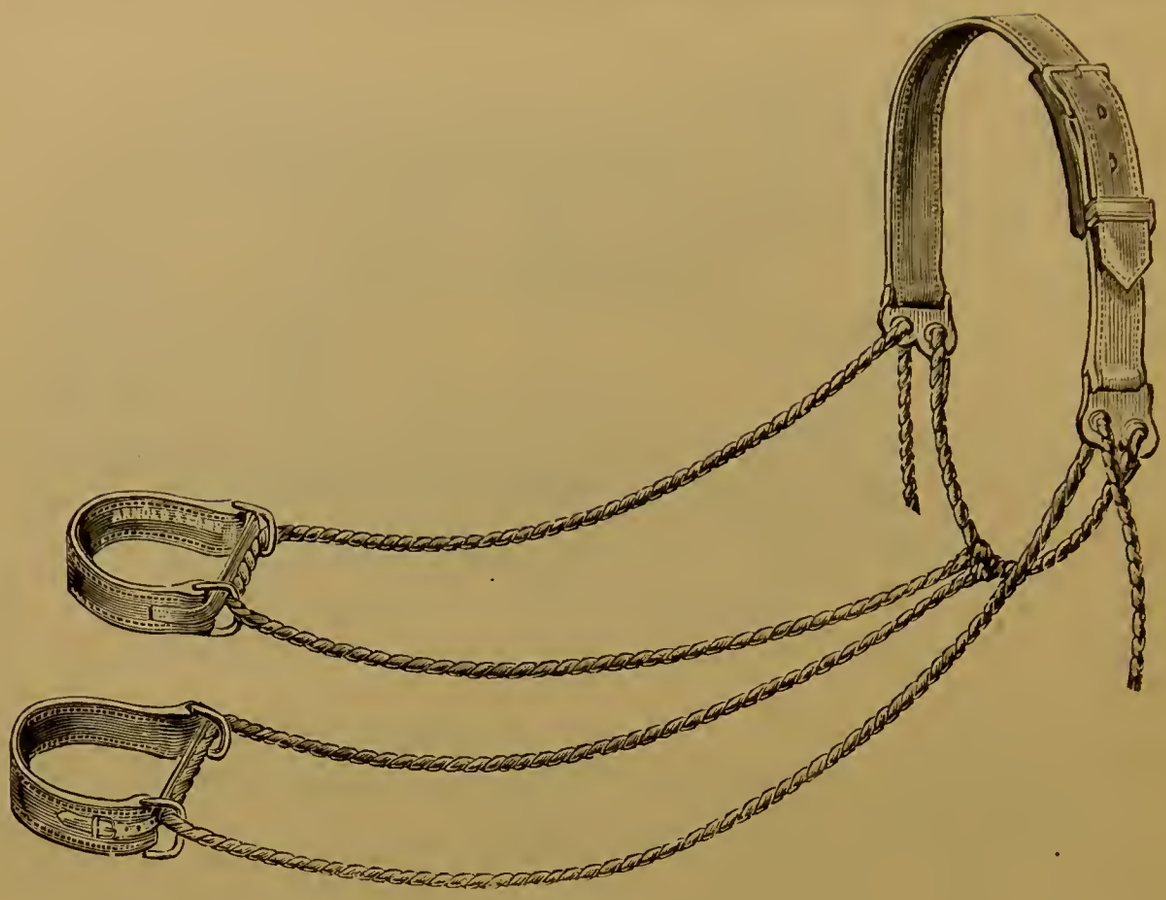


Fig. 89.

	£	s.	d.
Castrating Hobbles, improved, Fig. 89	2	2	0
Ditto ditto white cotton rope (60ft.)	1	1	0

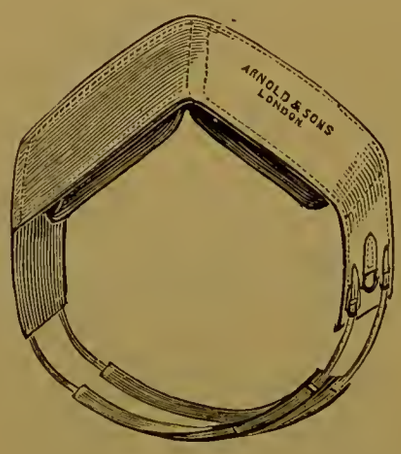


Fig. 90.

	£	s.	d.
Castrating Hobbles (Arnold & Sons' improved), Fig. 90	3	3	0

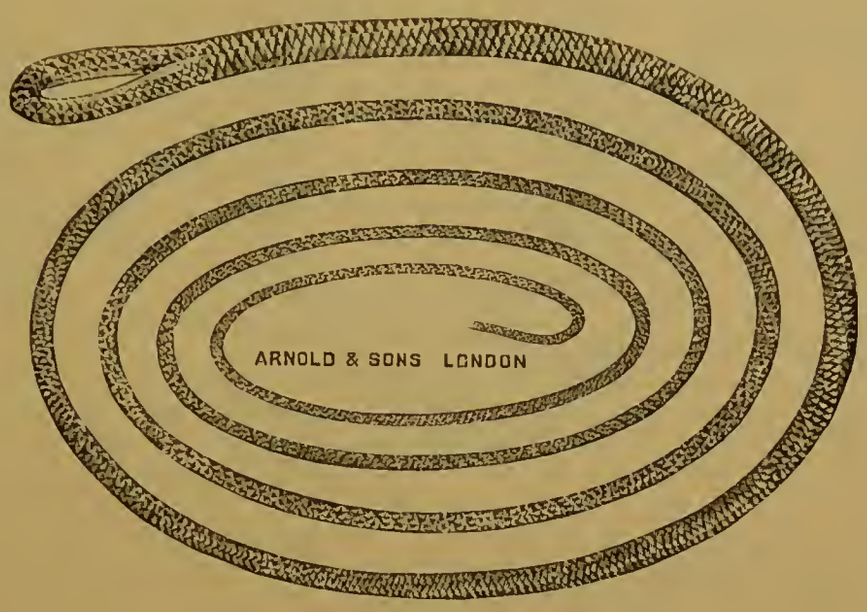


Fig. 91.

	£	s.	d.
Side Line, Army pattern, Fig. 91	0	12	6

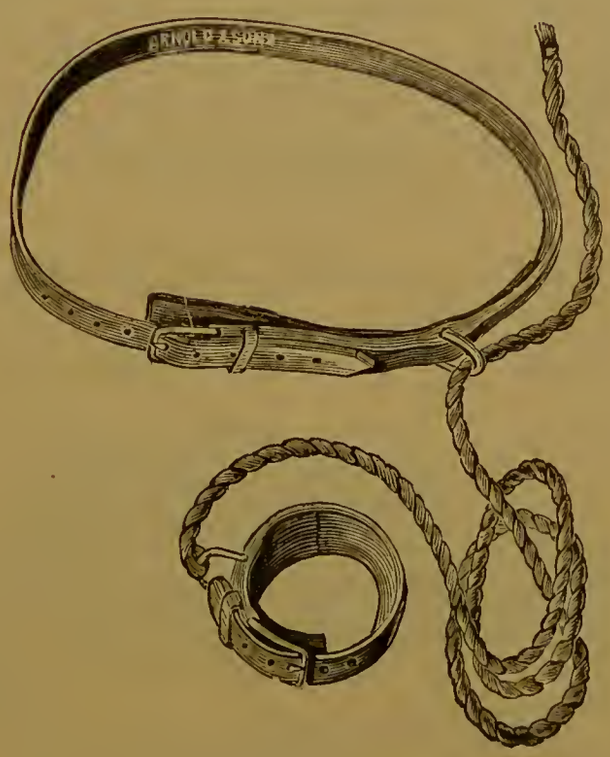


Fig. 92.

Side Line (Arnold & Sons' improved), with neck strap, &c., Fig. 92	1	10	0

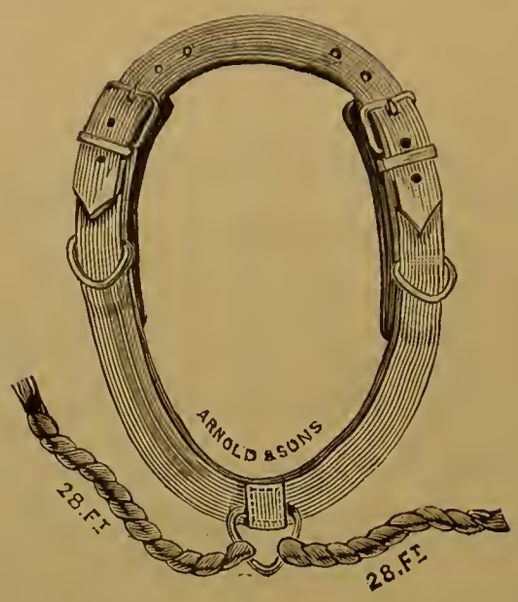


Fig. 93.

	£	s.	d.
Side Line, improved (Michell's), Fig. 93	2	10	0

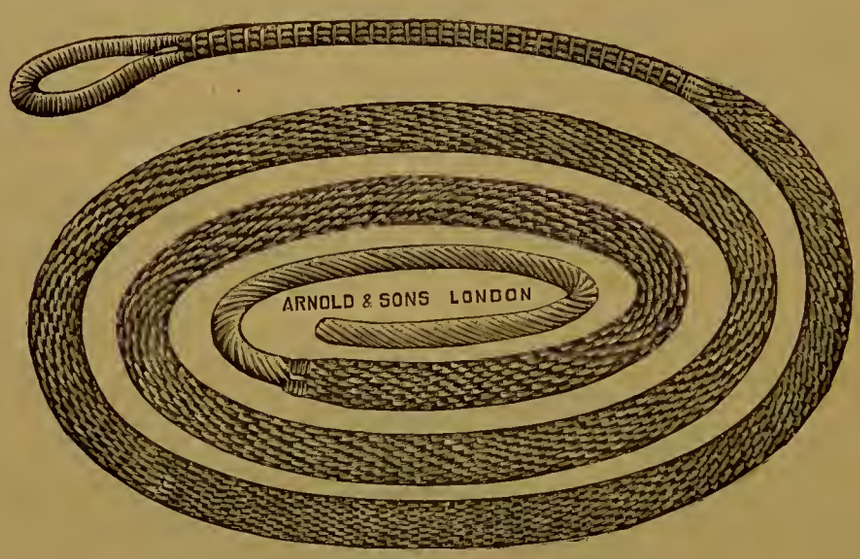


Fig. 94.

Side Line, Prof. Smith's (Toronto), improved flat rope, Fig. 94 ...	1	1	0

PROFESSOR SMITH writes :—The rope you made for me suits my purpose admirably, and I can recommend its use as a side line or whenever necessary to secure a limb.

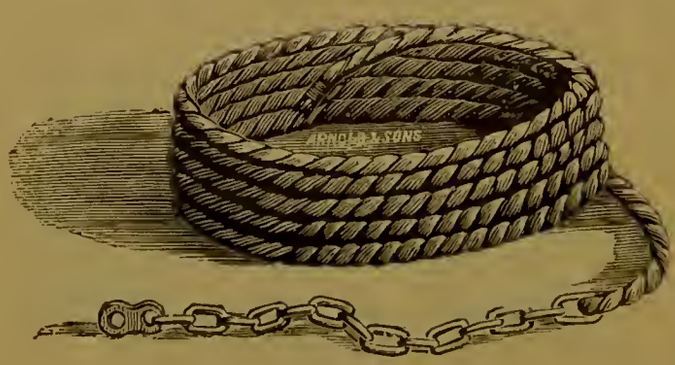


Fig. 95.

Hobble Rope and Chain, Fig. 95...	0	15	0

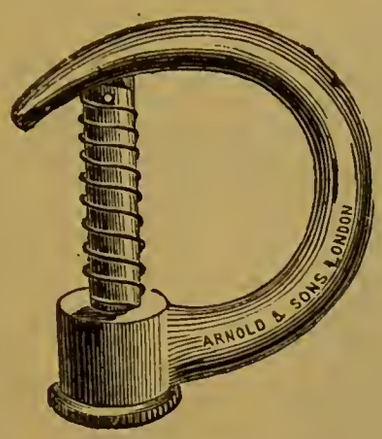


Fig. 96.

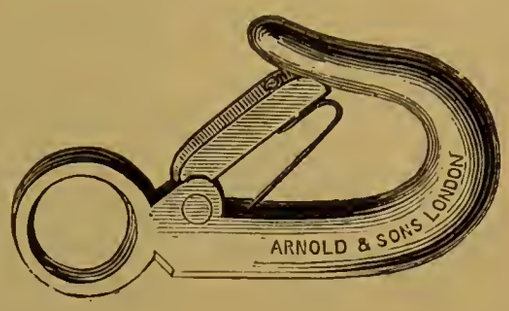


Fig. 97.

	£	s.	d.
Hobble Hook (Arnold & Sons' improved with spring), Fig. 96 ...	0	7	6
Ditto Army pattern, Fig. 97...	0	12	6

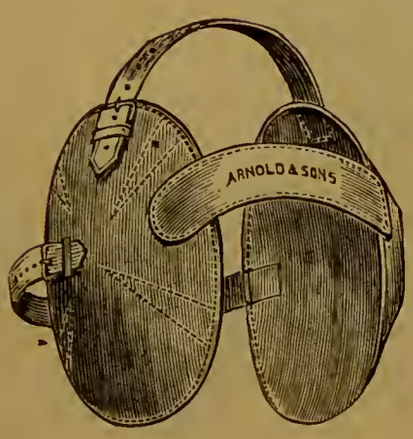


Fig. 98.

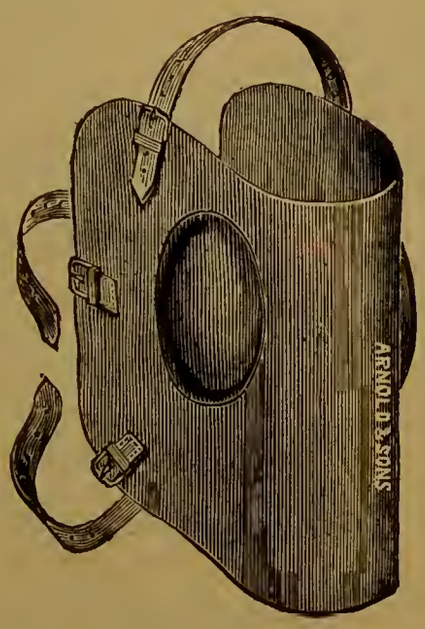


Fig. 99.

Blinds for Horses, very stout cupped leather, to protect the eyes, Fig. 98 ... ... per pair	0	12	6
Ditto ditto ditto Fig. 99 ... ... ditto	0	12	6

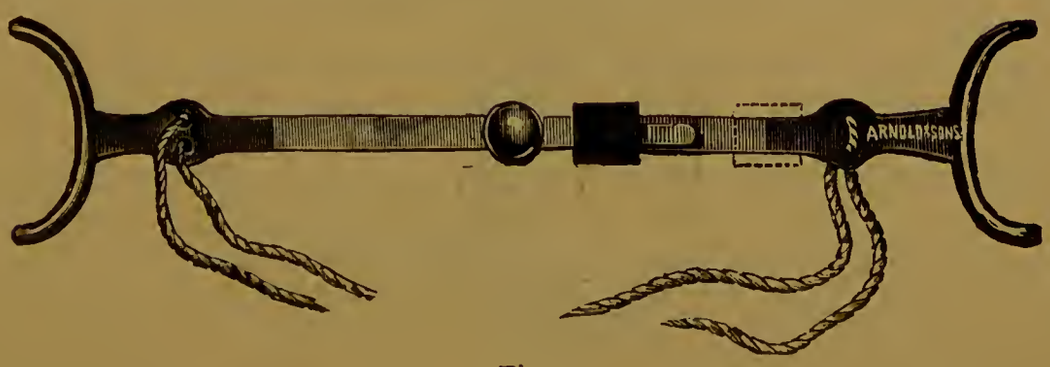


Fig. 100.

Spreader (Farmer Miles' pattern), Fig. 100	1	0	0

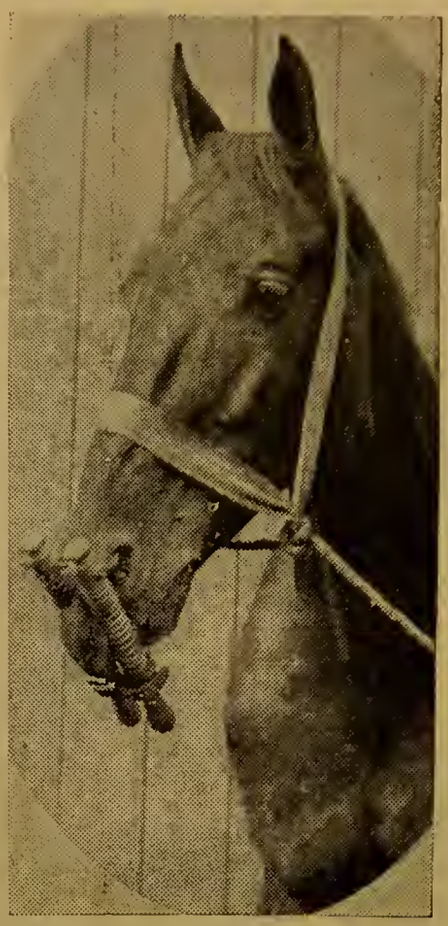


Fig. 101.

	£	s.	d.
Nose Twitch (Rutter's), Fig. 101, two sizes ... ... 5s. 6d. and	0	6	6

Fig. 102.

Nose Twitch, Fig. 102	0	7	6
Ditto (Farmer Miles' pattern)	0	3	6

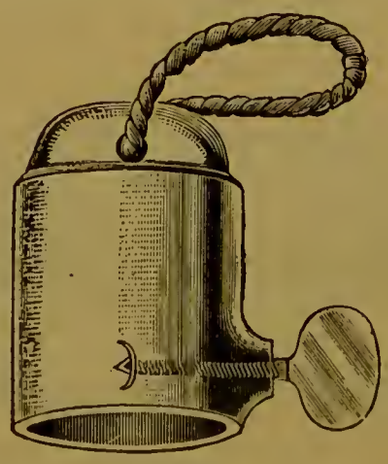


Fig. 103.

Nose Twitch (Fletcher's), nickel-plated, Fig. 103	0	3	6

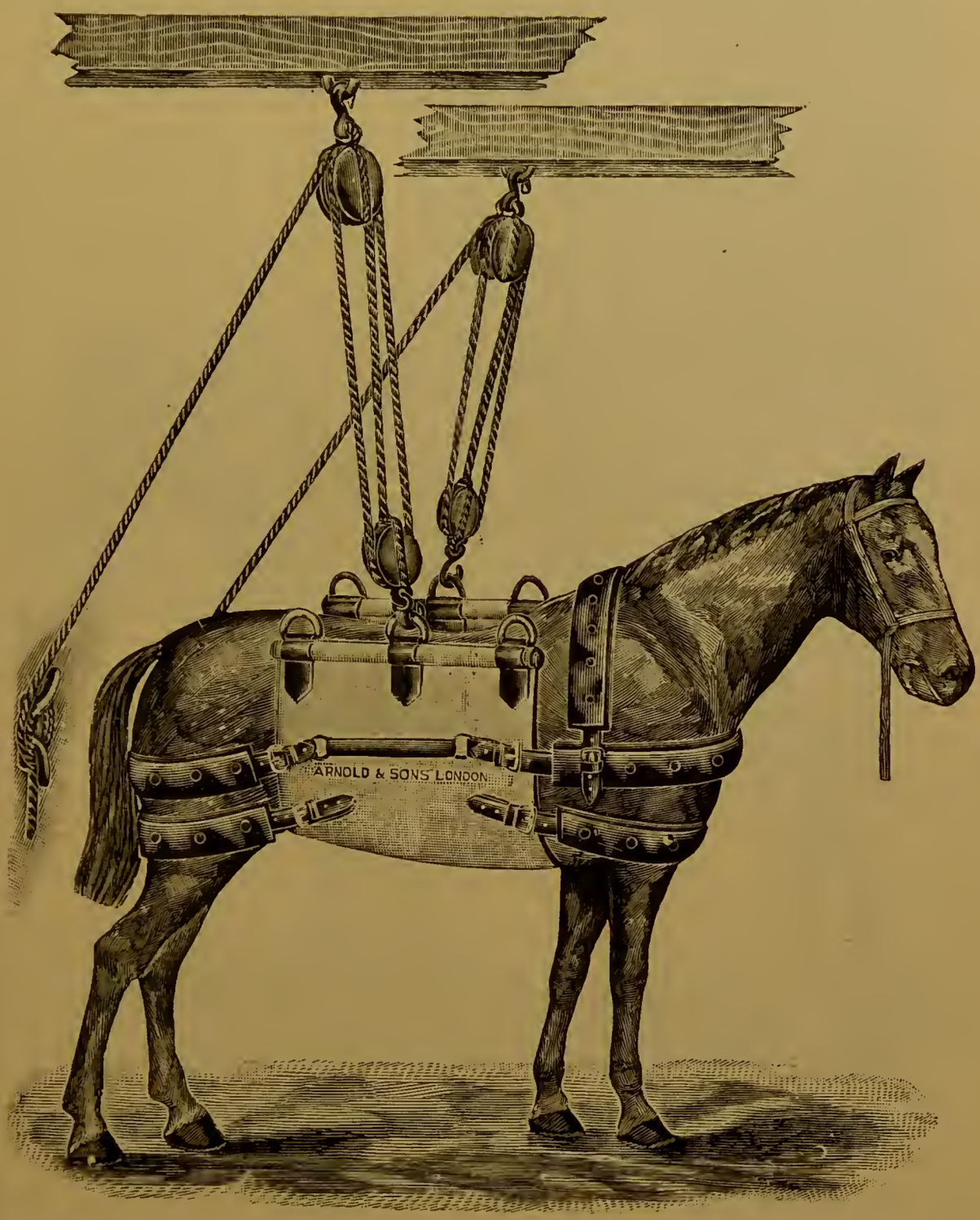


Fig. 104.

	£	s.	d.
Horse Sling (Arnold & Sons'), with wood pulley blocks, ropes, &c., and extra strong waterproof canvas, complete, Fig. 104 ...	6	6	0
Ditto ditto ditto plain pattern	3	10	0
Ditto ditto ditto ditto with wood pulley blocks, ropes, &c.	4	15	0

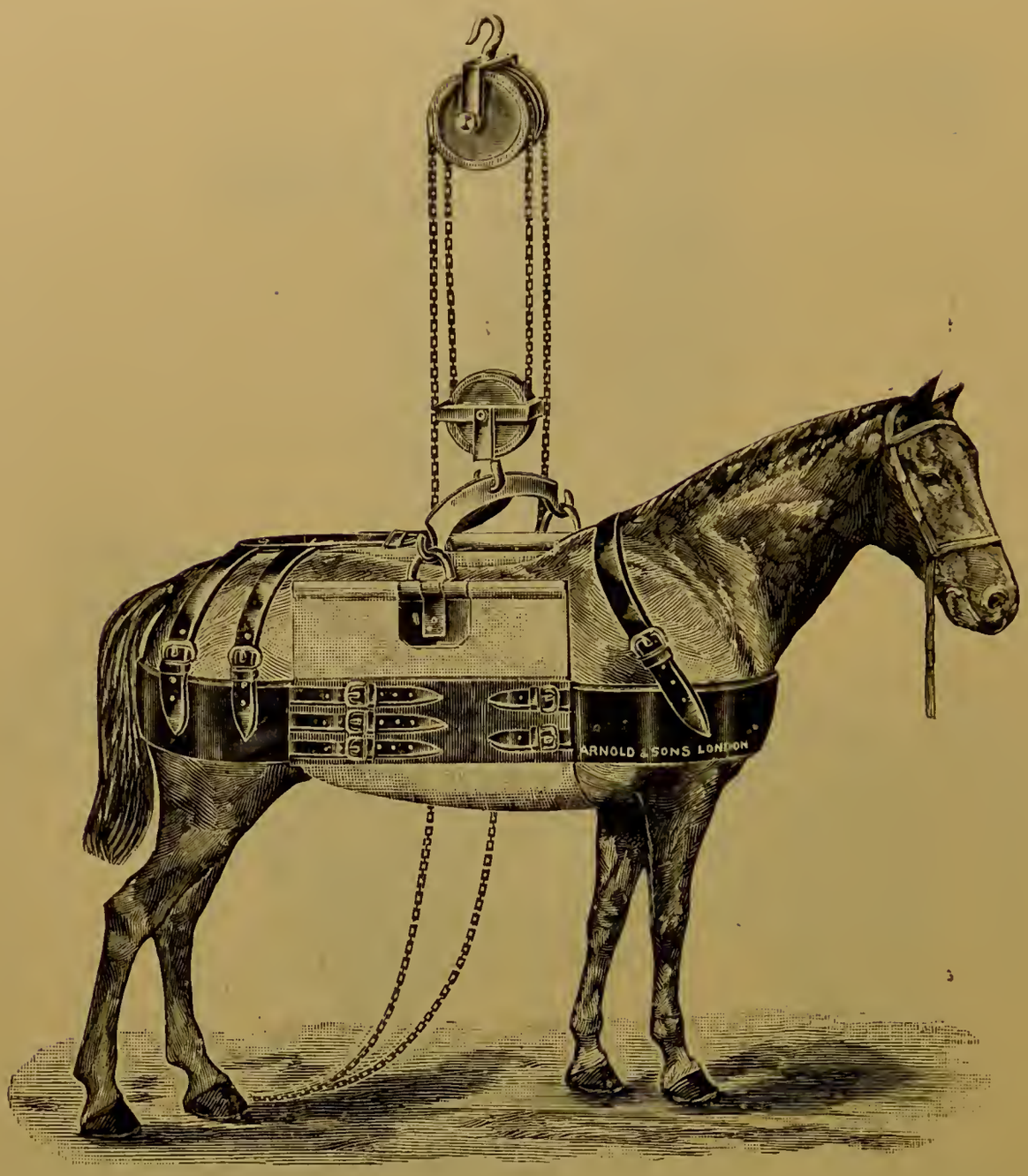


Fig. 105.

	£	s.	d.
Horse Sling (Arnold & Sons' improved), with leather work of extra quality and strength, waterproof canvas, and Weston's Patent pulley blocks with endless chain, tested to one ton, complete, Fig. 105	9	0	0
Ditto ditto (Broad's), plain pattern	7	10	0
Ditto ditto (Batt's), without pulley blocks	5	5	0
Pulley Blocks for Slings (Weston's Patent), tested to one ton, with endless chain	1	15	0

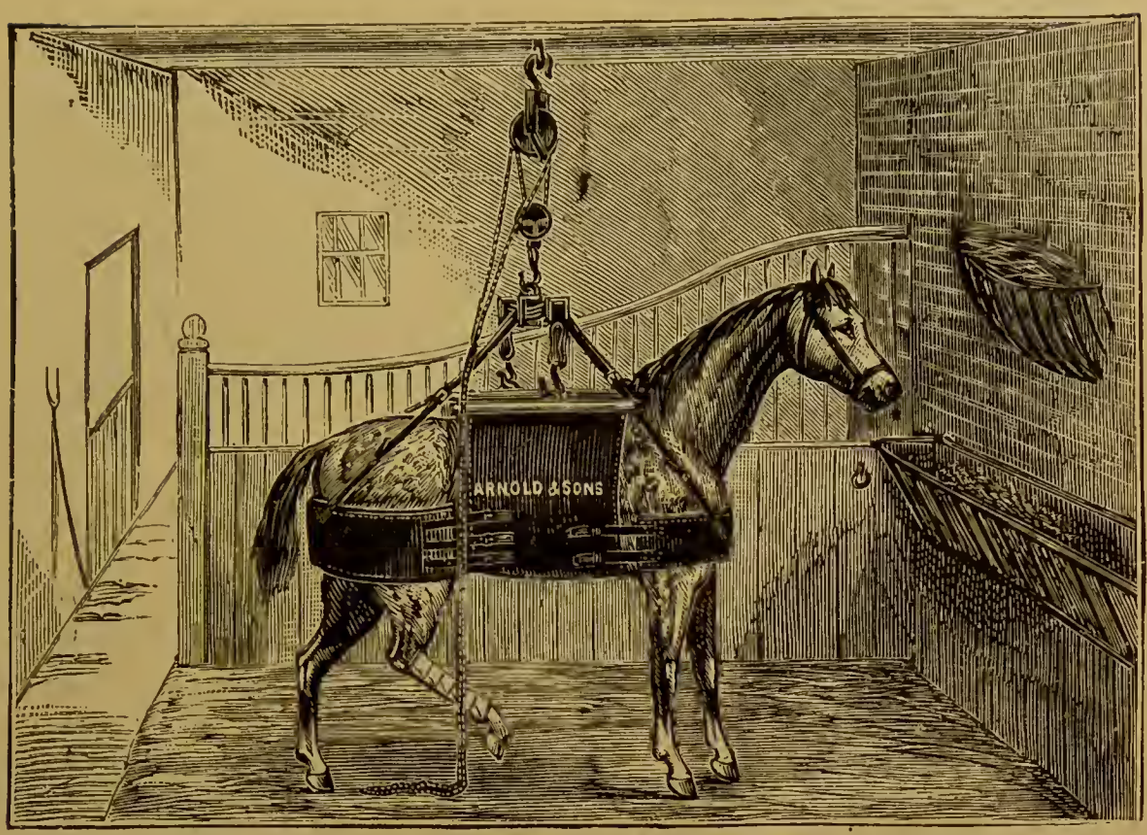


Fig. 106.

	£	s.	d.
Horse Sling (Mills' improved), with Weston's Patent pulley blocks and endless chain, tested to one ton, complete, Fig. 106 ...	12	12	0

Extract from "VETERINARIAN."

For many years I have been experimenting with the view of bringing into use a horse-sling which would combine *utility* with *comfort*. This has now been well accomplished in the sling made from my model by Messrs. ARNOLD & SONS, West Smithfield, London. It was invariably a source of anxiety to place a horse in many of the old-fashioned slings for any length of time, as sores on various parts of the body were of such frequent occurrence. These would necessarily complicate a case, but with my sling such complications are reduced almost to an impossibility. The sling, it will be observed from the woodcut, consists of a cross-spring, longitudinal bar or support, breast-straps, breeching, belly-band or abdominal support, with a differential pulley.

Extract from "VETERINARY JOURNAL."

Its advantages are—

1. It is simple and strong in construction.
2. Practically noiseless.
3. Not liable to get out of order.
4. Takes up much less space than the old pattern slings.
5. It at once secures absolute ease and comfort to the patient.
6. One man can raise or lower the patient without disturbing it.
7. The patient can be moved while in the sling as on a pivot.
8. It prevents galling or chafing, as the spring on which the horse rests is so constructed as to *give and take* with every movement.
9. There is no pressure on the withers or croup, as the breast-straps and breeching are supported by the longitudinal bar above the spring, thus keeping these parts clear and free from friction.
10. With it a horse can be slung in the open—as, for example, to the branch of a tree, which is a great desideratum in a tropical climate.

It may be added that this sling obtained the Diploma of Merit at the Royal Military Exhibition, London, 1890.

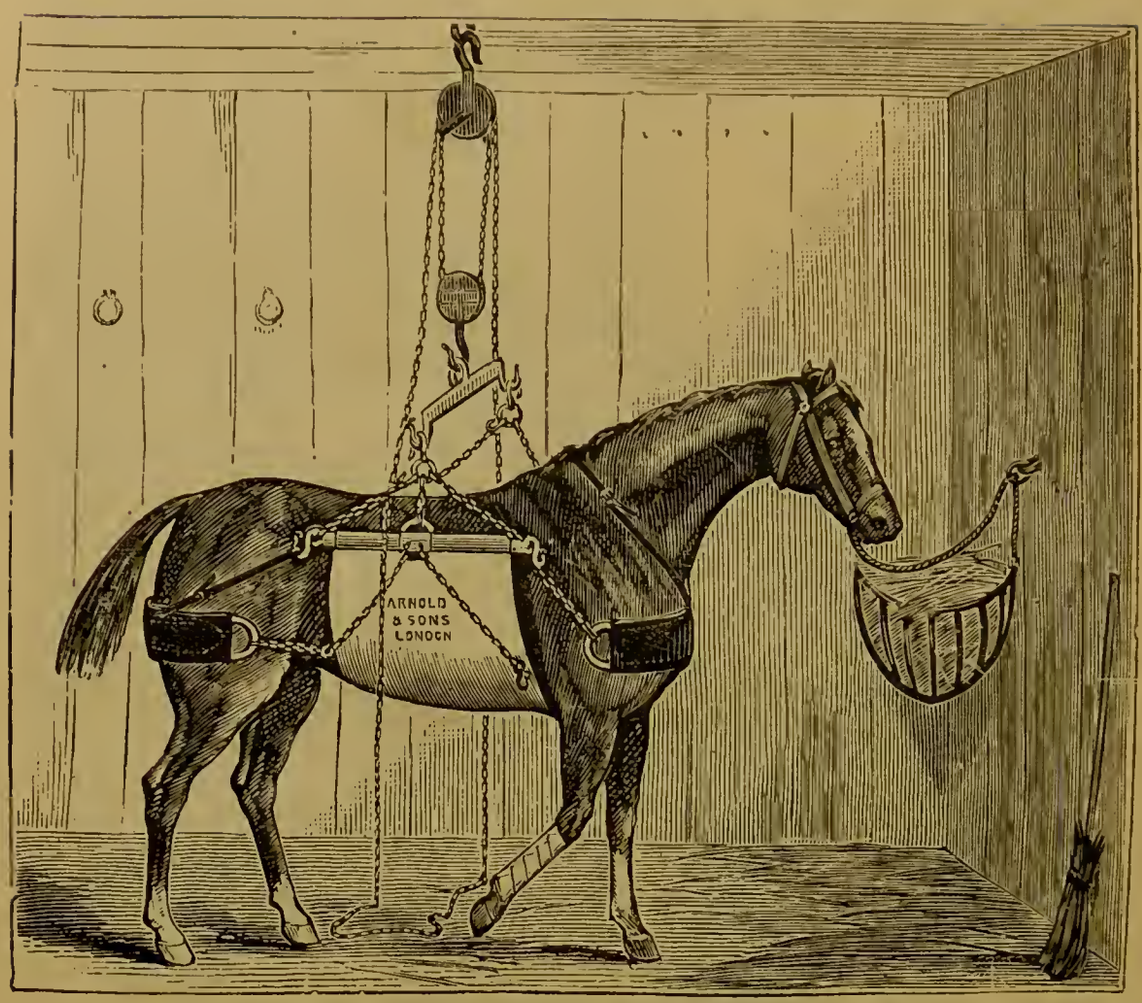


Fig. 107.

	£	s.	d.
Horse Sling (Wilson's improved), with Weston's Patent pulley blocks and endless chain, tested to one ton, complete, Fig. 107	13	13	0

Extract from "VETERINARIAN."

Everyone who has taken notice of a horse hung up in an old-fashioned sling must have felt that if the poor animal could be put into a more comfortable position he would have a better chance of recovery.

In a new sling which Messrs. ARNOLD & SONS have manufactured, in accordance with my ideas, many of the old defects are entirely done away with.

The chain, block, and tackle is of course the *sine quâ non* in the arrangement, as it enables two men not only to manage the heaviest horse, but to raise him off the ground. The cross bar prevents crushing the animal, and the side bars distribute the bearing. The webbing is reversible. By this arrangement it is immaterial which end is in front, a consideration in the hurry of the moment. Both breeching and breast collar are attached by means of hooks and chains to the ends of the side bars. Hooks are more readily adjusted than straps; they do not become unsafe by the perspiration, rotting, and sticking, or the tongue of the buckle tearing out, as in the straps; and the strain is directed straight to the cross bar.

Thus, when the horse lets his legs go from under him and sinks into the slings he is not cut into as in the old slings, but the weight is distributed, most of it being divided between the webbing and the breeching. The webbing cants to an angle which fits the contour of the abdomen; and the breeching, kept up by the straps which go from it to the cross bar, prevents the animal slipping out backwards.

All the ironwork is galvanised, and therefore does not rust, and all the hooks have rings in their noses to prevent them becoming unfastened.

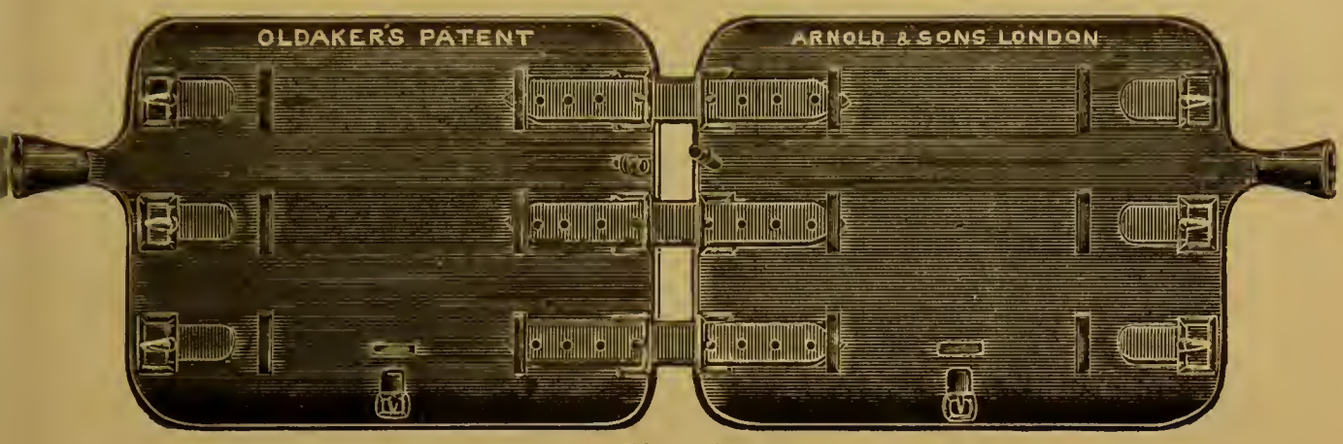


Fig. 108.

	£	s.	d.
Anti-inflammatory Compress (Oldaker's Patent), for blood horses, Fig. 108	5	5	0
Ditto ditto ditto ditto for draught horses	6	6	0

The above is most useful for applying hot water to loins, lungs, abdomen, &c.; moist or dry heat can be sustained for any length of time, and can be emptied or refilled without removing.

Écraseurs, Castrating, and Hernia Instruments.

NOTE.—*All the undermentioned Écraseurs we guarantee to be our own manufacture, and much superior in every respect to either American or German make.*

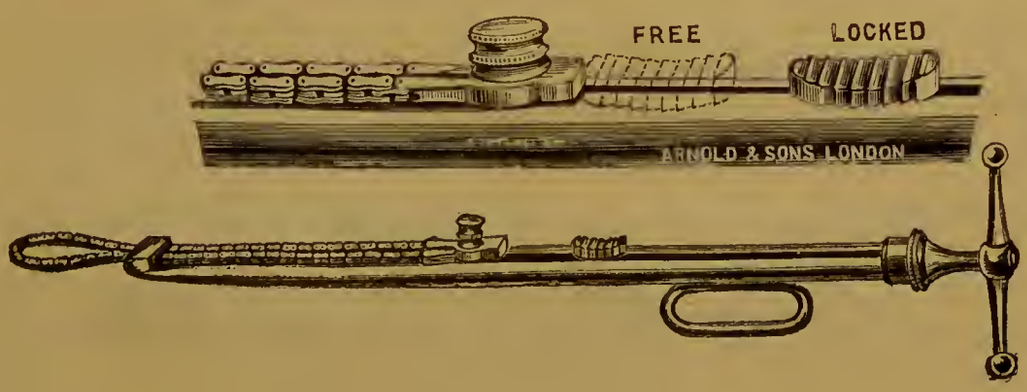


Fig. 109.

	£	s.	d.
Écraseur (Prof. Dewar's), Patented, nickel-plated, Fig. 109... ...	4	4	0

Extract from "THE VETERINARY RECORD."

I have just had made for me by the Messrs. ARNOLD an écraseur which I am confident will supply a want long felt by the veterinary profession. They have managed to retain the slow steady principle of the screw, while by simply pushing forward the thumb plate the slack of the chain can be pulled in as easy as in the old Chassaignac's, and by pulling it back again the screw movement is at once thrown into gear.

The retention of the screw movement does away with the jerky action of the ratchet, so liable to snap the chain and so undesirable where the arrest of hæmorrhage is essential.

The mechanism by which this is accomplished is inside the shaft, and therefore not liable to be disarranged in the course of an operation. The shaft is sufficiently long to make the instrument available for the castration of mares and cows per vaginam, and is more convenient than a short one for castrating horses in a standing position. The chain is bevelled on one edge so that it will crush and not cut, a great advantage in castration, while it can be reversed and the angular edge used when more fibrous tissues require to be divided.

The slot through which the chain passes is also slightly blunted on the edges for the same reason—to prevent the sharp cutting action which is such a fruitful source of hæmorrhage after the use of the écraseur.

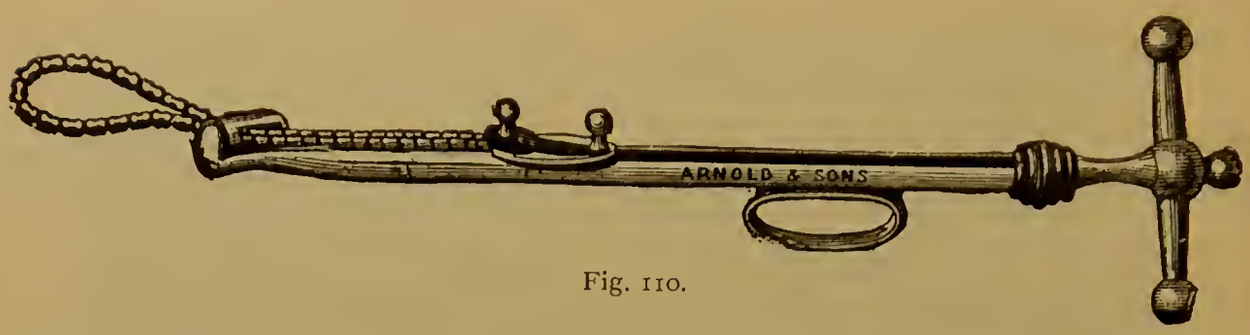


Fig. 110.

	£	s.	d.
Écraseur (Farmer Miles' pattern), fitted with chain, Fig. 110, small	2	7	6
Ditto ditto ditto ditto medium	3	3	0
Ditto ditto ditto ditto extra large	4	10	0

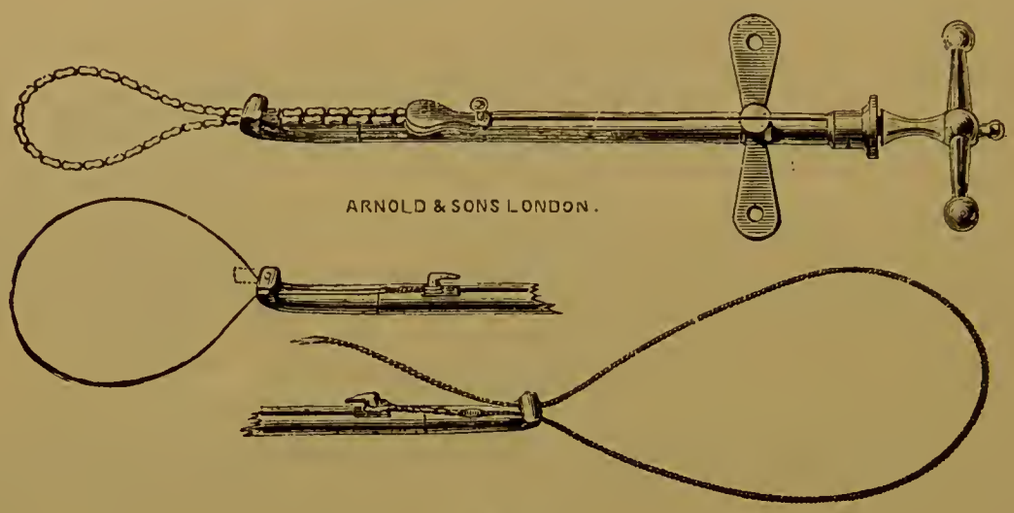


Fig. 111.

Écraseur (Prof. Robertson's), fitted with three ends, for chain, wire and wire rope, in polished mahogany case, complete, Fig. 111	5	5	0
Ditto ditto fitted with chain only	3	3	0

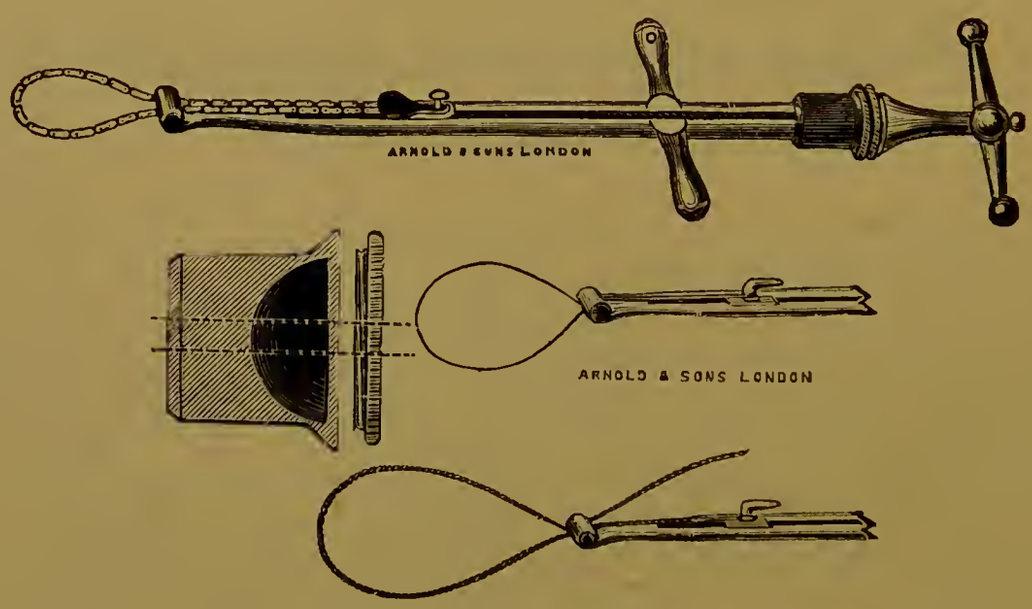


Fig. 112.

Écraseur (Brett's), with cap for holding vaseline and fitted with three ends, for using with either wire, rope, or chain, in polished mahogany case, complete, Figs. 112	6	6	0

Fig. 113.

	£	s.	d.
Écraseur (Arnold & Sons' improved), fitted with steel wire, as recommended by Dr. Fleming, Fig. 113	2	10	0

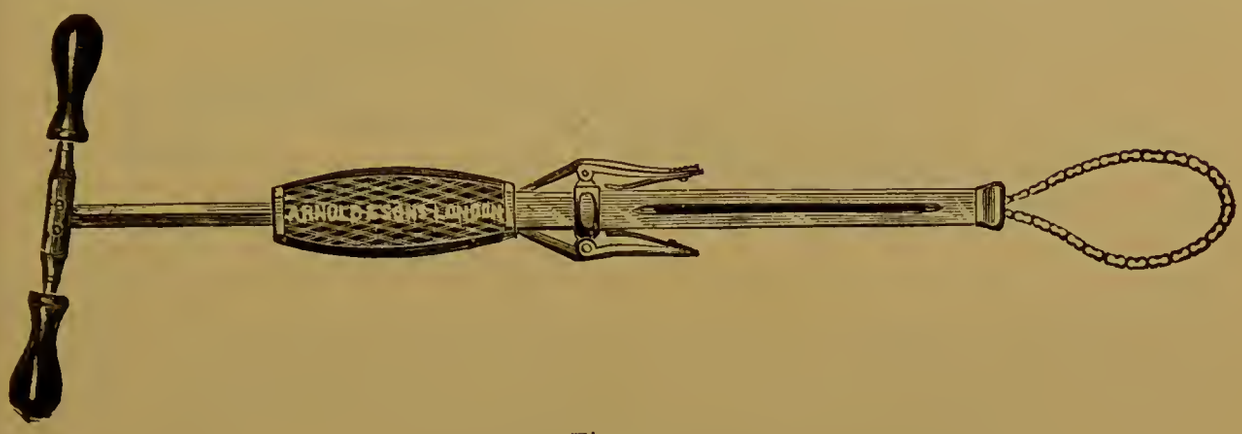


Fig. 114.

Écraseur (Buckingham's), fitted with chain, extra large, Fig. 114 ...	4	0	0
Ditto (Chassaignac's), ditto	3	3	0
Ditto Chains ... ... 12s. 6d. and	0	15	0
Ditto Wire	0	1	6
Ditto Wire Rope	0	2	6

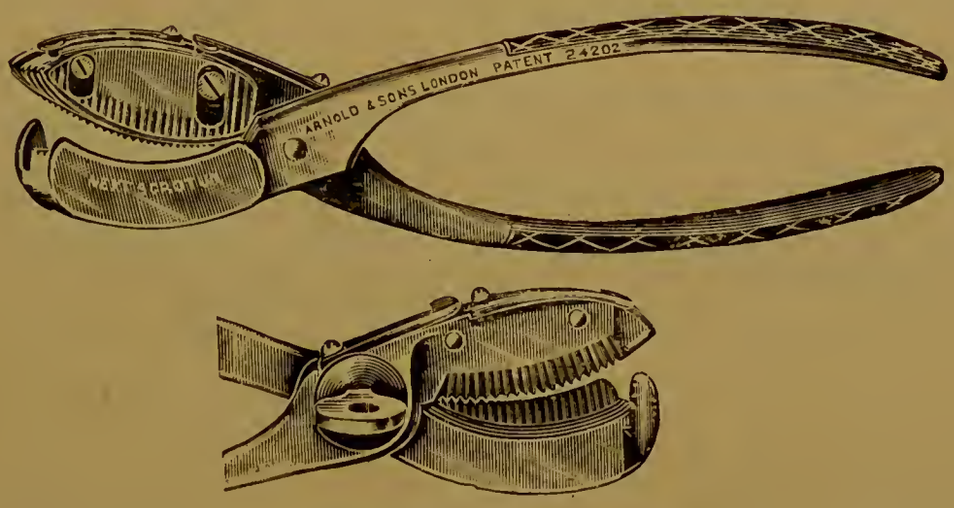


Fig. 115.

Castrator "Reliance" (Arnold & Sons' Patent), with improved springs and adjustable plate, nickel-plated, Fig. 115	2	5	0

Extract from "THE VETERINARY JOURNAL."

A new form of instrument for castrating has been patented, which is very simple, and possesses many advantages over all existing castrators. It has been practically tested, and proved to be the most simple and effective instrument as yet brought before the notice of the profession.

Extract from "THE VETERINARY RECORD."

It has longitudinal grooves deeply cut, both on the upper and lower blades, which, when closed, fit accurately into each other, thereby squeezing the cord sufficiently to prevent hæmorrhage.

The upper and lower blades are curved, the former having a series of small sharp teeth, so that, when in the act of closing the instrument, by the means of these teeth it is impossible for the

cord to slip, and is cleanly cut and clamped with the one action. It also has a very simple arrangement whereby you can obtain parallel pressure throughout the whole length of the blades, this being a great advantage over instruments now in use. The upper blade having teeth will not blunt like the ordinary instruments.

It is nickel-plated, and fitted with a thumb-screw, so that it can be taken to pieces for cleaning purposes.

DIRECTIONS FOR USE.—The method of procedure is to open the scrotum in the usual way, pull the testicle well out, and twist it round three or four times, then apply the castrator. Having done this, close the blades of the instrument and hold them firmly for about a minute. Remove the testicle and carefully relax the castrator.

Repeat the same process with the other testicle.

Put vaseline on the grooves before using.

List of Testimonials sent on Application.

BALLINA,
Sept. 21st, 1898.

GENTLEMEN,—

Since getting the "Reliance" castrator I have discarded all other methods. I have given the instrument a fair test, having castrated over 200 colts and horses of all ages up to fifteen years old, with the greatest success. I had one of the worst cases I ever saw, and the result was all anyone could desire.

Your instrument has made castration the simplest of operations.

Yours faithfully,
DAVID HAMILTON, M.R.C.V.S.,
Inspector of the Privy Council.

BALLINROBE,
Sept. 22nd, 1898.

DEAR SIRS,—

This season I castrated about fifty colts with the "Reliance" castrator. I consider it a safe and expeditious method of operating. In *no* case had I any hæmorrhage, although after my first few cases I did not keep the cord compressed for more than half a minute.

Yours faithfully,
J. J. VAHEY, M.R.C.V.S.

LIMERICK,
Jan. 27th, 1898.

DEAR SIRS,—

I have castrated 230 horses of all ages up to now with the "Reliance" castrator, and have not had a single case of hæmorrhage or trouble of any sort after it. It is undoubtedly the best and most expeditious instrument in use.

Yours faithfully,
E. C. WINTER, F.R.C.V.S.

SAN JOSE DE COSTA RICA,
Oct. 20th, 1898.

DEAR SIRS,—

I have much pleasure in informing you that though I have only castrated five horses (all over six years and one over twelve years old) with the "Reliance" castrator, every case has been entirely satisfactory, and the instrument has given me the utmost satisfaction. Besides horses I have used the instrument in castrating a large number of calves, and of bulls ranging from four years and upwards. I cannot record one unsatisfactory result, and can only speak in the highest terms of praise of your instrument.

Yours faithfully,
J. ALLAN STUART HANCKEL.

TIPPERARY,
July 30th, 1898.

DEAR SIRS,—

I am happy to be able to inform you that I have used your "Reliance" castrator on upwards of 60 colts in the course of my practice with the most successful results. I consider your invention a most valuable one.

Yours faithfully,
HENRY H. FETHERSTONHAUGH, M.R.C.V.S.

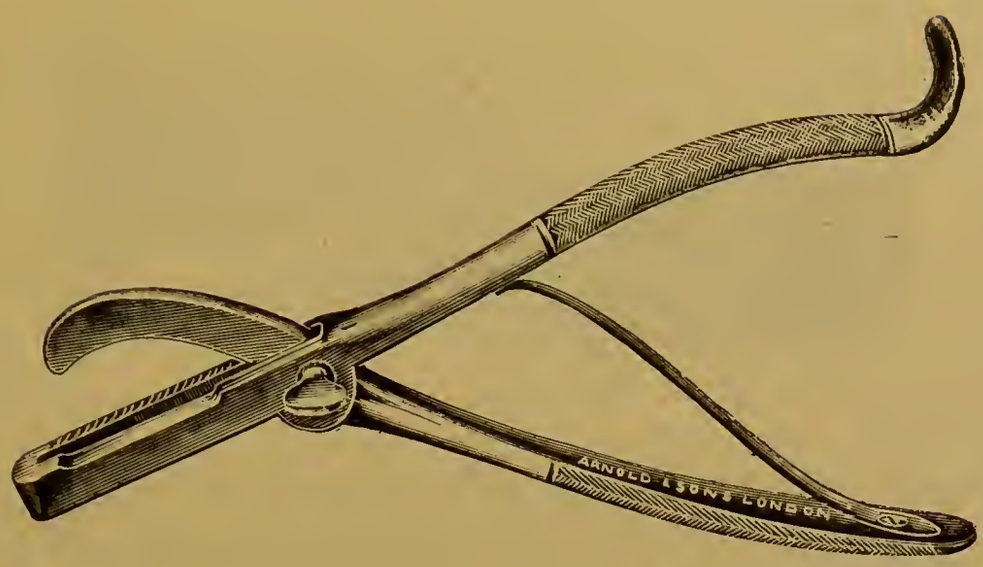


Fig. 116.

	£	s.	d
Castrator (Blake's), nickel-plated, Fig. 116	1	2	6

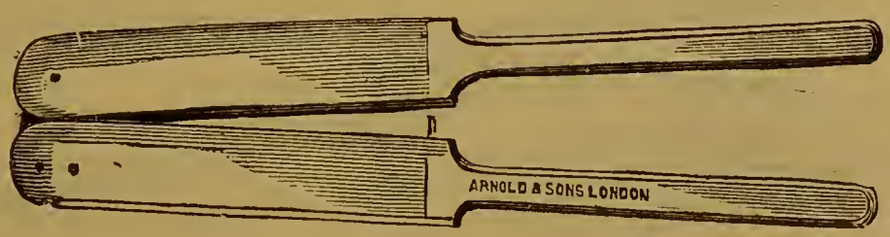


Fig. 117.

Castrating Clams (Varnell's), boxwood, Fig. 117	0	5	0

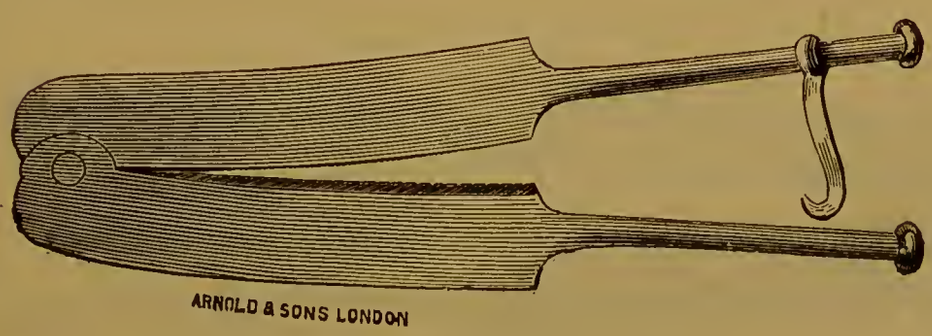


Fig. 118.

Castrating Clams, with sliding catch, Fig. 118	0	10	6

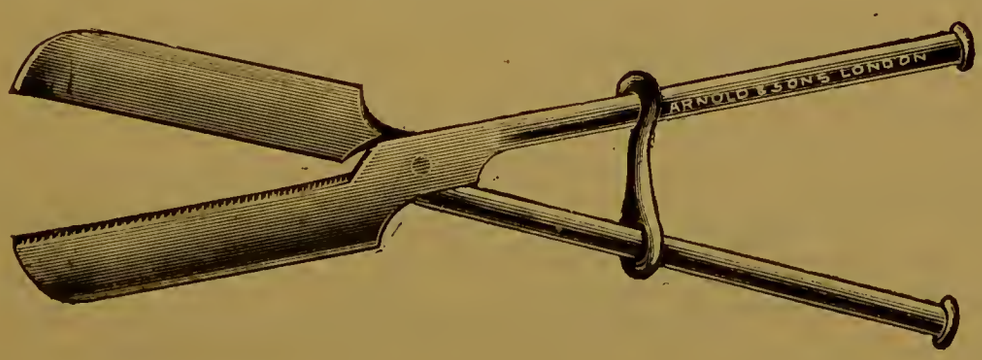


Fig. 119.

Castrating Clams, with sliding catch, Fig. 119	0	10	6

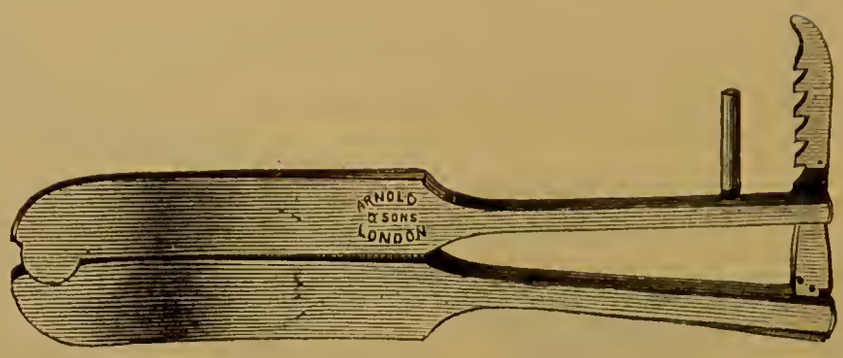


Fig. 120.

	£	s.	d.
Castrating Clams, with spring regulating rack, Fig. 120	0	12	6

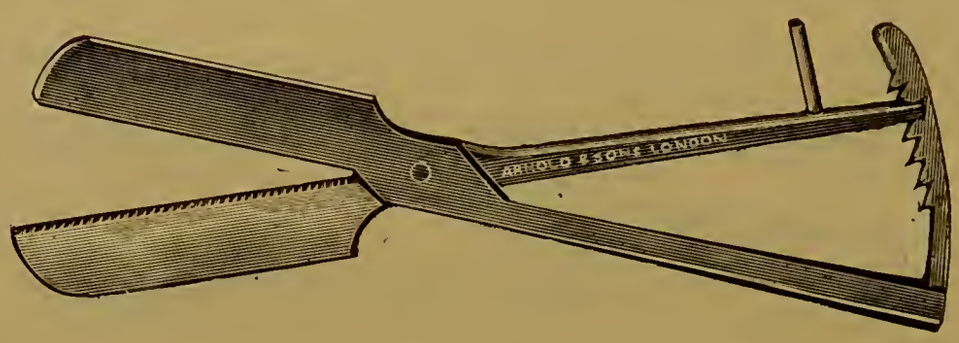


Fig. 121.

Castrating Clams, with spring regulating rack, Fig. 121	0	12	6

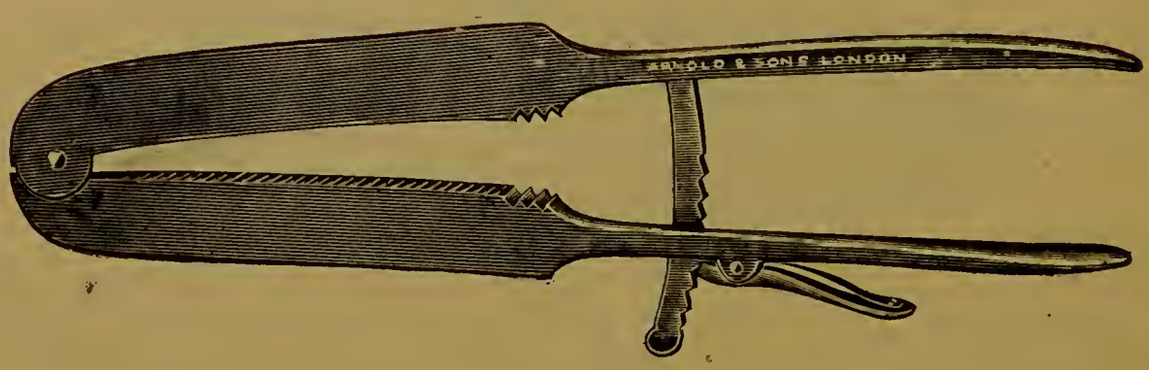


Fig. 122.

Castrating Clams (Prof. Williams'), with regulating rack, nickel-plated, Fig. 122	0	15	0

Fig. 123.

Castrating Clams (Prof. Robertson's), Fig. 123	0	14	0

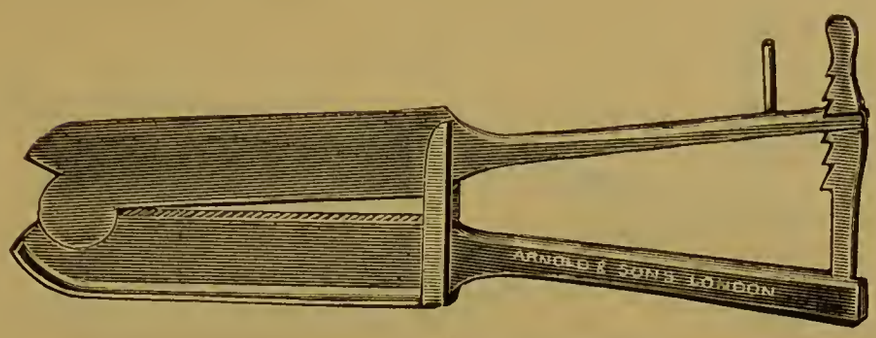


Fig. 124.

	£	s.	d.
Castrating Clams (Platt's), with spring regulating rack, Fig. 124 ...	0	15	0

Extract from "THE VETERINARY RECORD."

The accompanying illustration is that of an improved Castration Clam manufactured by Messrs. Arnold & Sons, of London. It is of the ordinary form of clam with the spring regulating rack; it has on the outer edge of the left blade, a raised portion or ridge which prevents the iron slipping during operation. To those practitioners in whose district it is the custom to castrate colts, calves, and lambs with the iron it will, I am sure, prove useful.

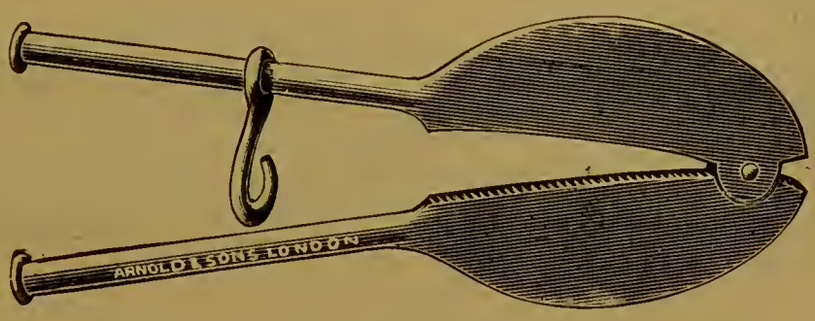


Fig. 125.

Castrating Clams, with oval spoon-shaped blades, and sliding catch, Fig. 125	0	12	6

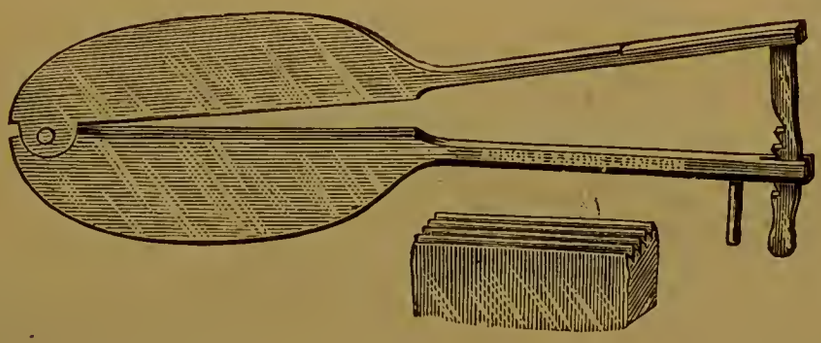


Fig. 126.

Castrating Clams (Wallis Hoare's), Patented, with spring regulating rack, nickel-plated, Fig. 126	0	15	0

Extract from "THE VETERINARY RECORD."

The blades meet very closely together, and the opposing surfaces possess deep grooves which fit accurately into each other after the manner of an artery forceps. These grooves are longitudinal, and when the instrument is applied to the vascular portion of the spermatic cord, the latter is very firmly compressed so that torsion of the artery is effected in an expeditious manner, when the forceps are applied.

The blades of the instrument are thin, so that only the smallest amount possible of bruised tissue is left behind, a point of great importance in the operation.

The blades are wide, so that the torsion forceps can be worked without interference, this advantage being especially observed when the operation is performed with the animal lying on his side.

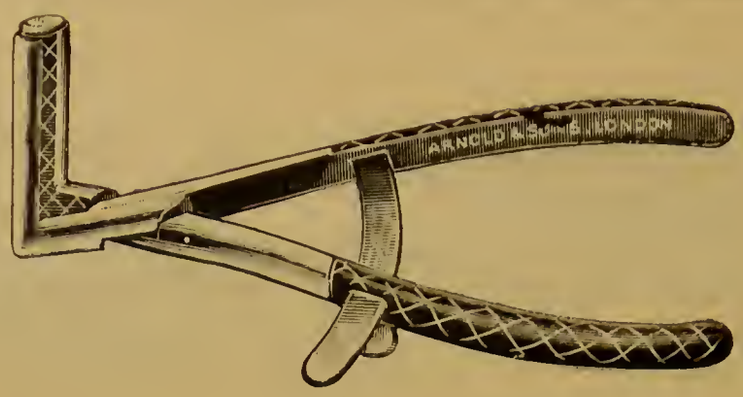


Fig. 127.

	£	s.	d.
Castrating Torsion Forceps, plain pattern, Fig. 127...	0	14	6

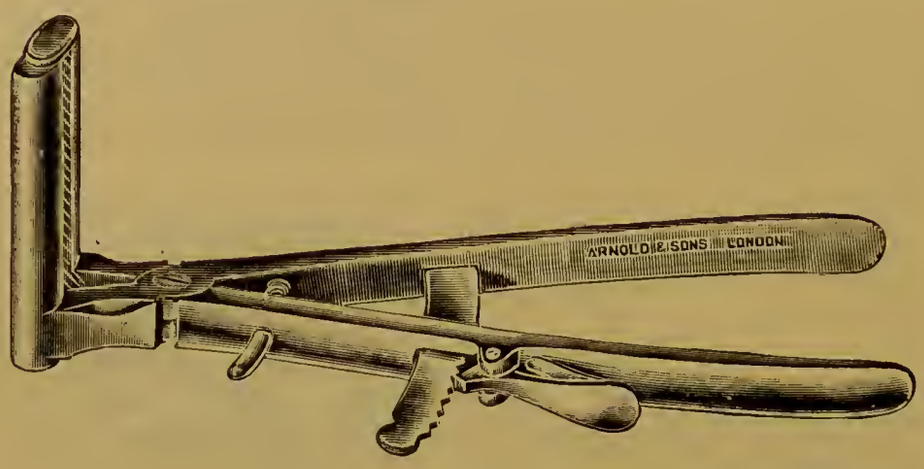


Fig. 128.

Castrating Torsion Forceps (Prof. Williams'), with rack and spring, Fig. 128	1	1	0

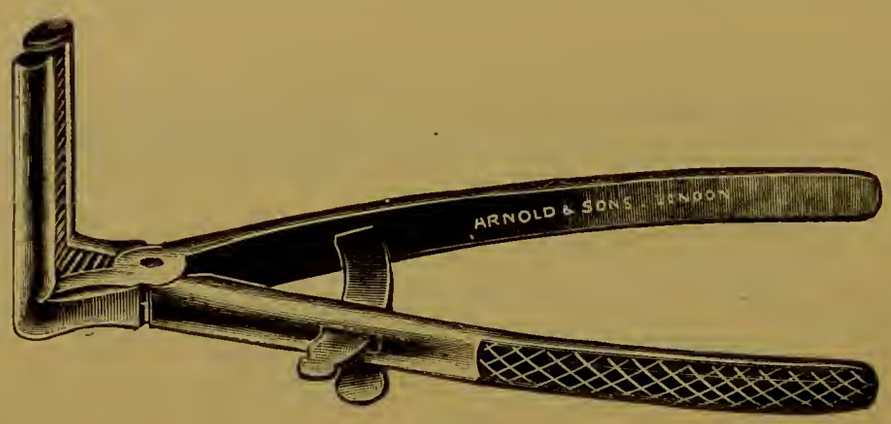


Fig. 129.

Castrating Torsion Forceps (Prof. Robertson's), extra strong, Fig. 129	0	19	0

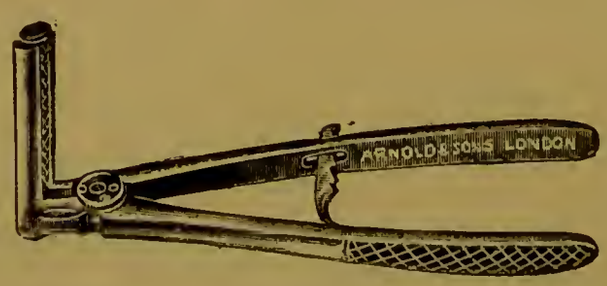


Fig. 130.

Castrating Torsion Forceps, with rack, small size, Fig. 130 ...	0	15	0

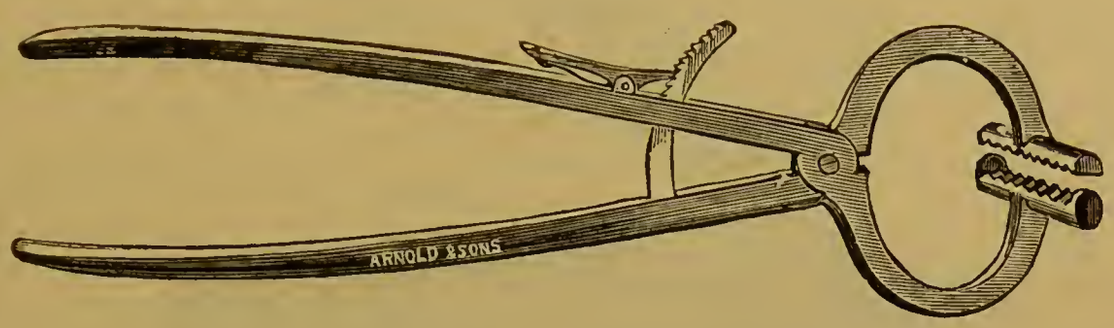


Fig. 131.

	£	s.	d.
Castrating Torsion Forceps (Prof. Williams'), with spring regulating rack, Fig. 131	1	3	6

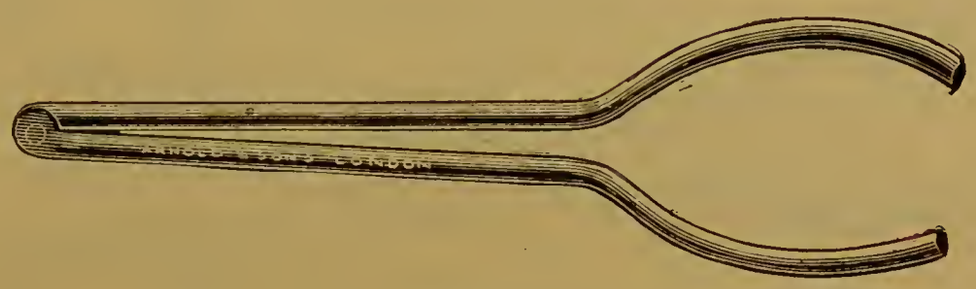


Fig. 132.

Clams for Holding Testicles, Fig. 132	0	6	0

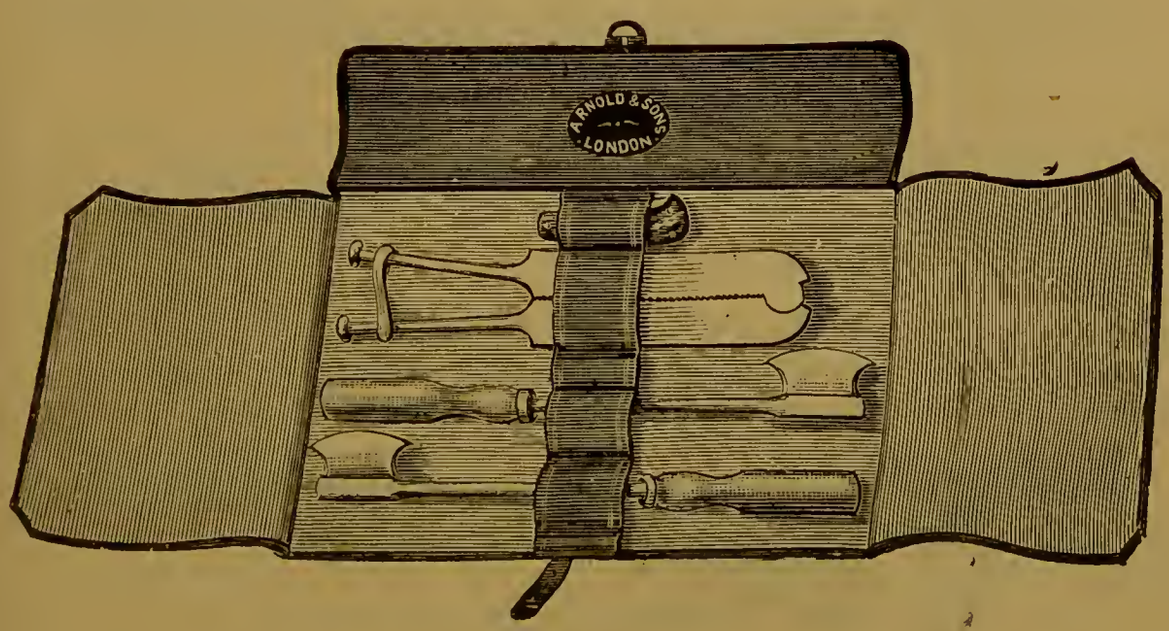


Fig. 133.

Castrating Set, consisting of clams, knife, and two irons, in leather case, complete, Fig. 133...	1	10	0

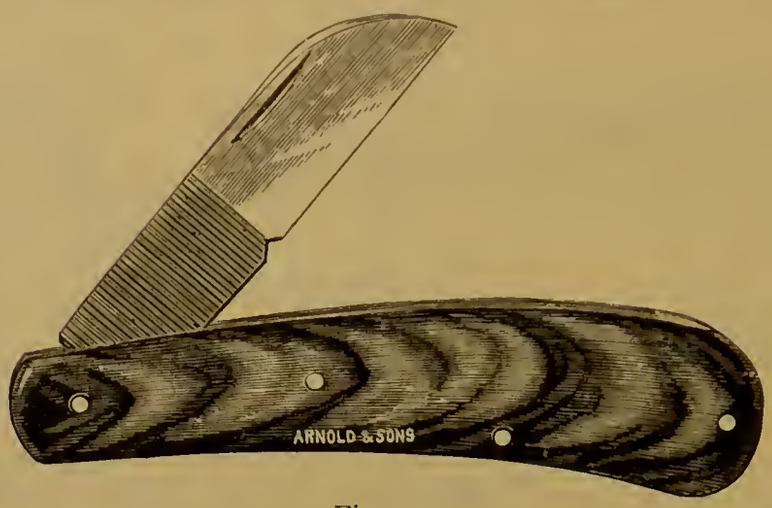


Fig. 134.

	£	s	d.
Castrating Knife, with spring back in horn handle, Fig. 134 ...	0	3	6

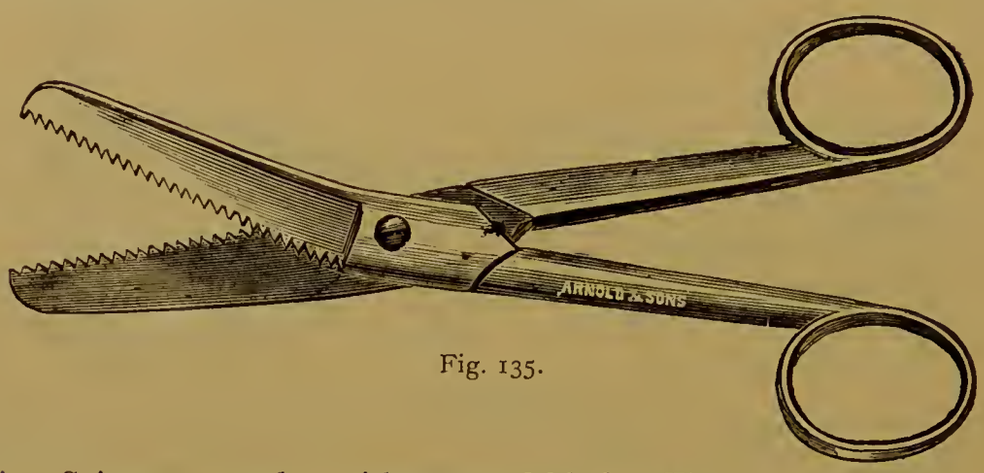


Fig. 135.

Castrating Scissors, angular, with serrated blades, Fig. 135... ...	0	8	6

Fig. 136.

Clams, Improved, with leather socket, plain pattern, Fig. 136 each	0	0	6
Ditto ditto ditto ditto ... ... per dozen	0	5	0
Ditto ditto ditto extra strong, superior ... each	0	1	3
Ditto ditto ditto ditto ... ... per dozen	0	12	6
Forceps for closing above	0	6	6
Set of Instruments for Castrating, without casting, consisting of Knife, Serrated Scissors, and two pairs Improved Wooden Clams, superior, Figs. 134, 135 and 136	0	14	0

Fig. 137.

Castrating Forceps (Gregory's), for lambs, Fig. 137...	0	2	6

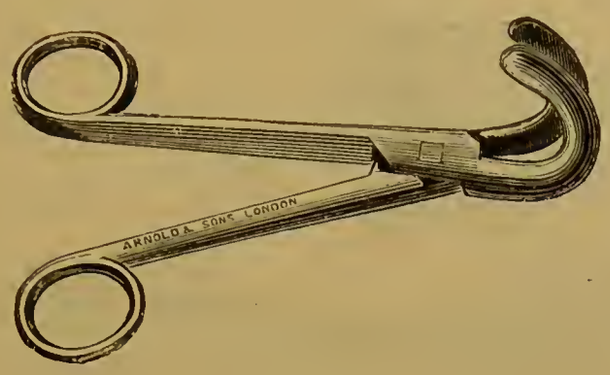


Fig. 138.

	£	s.	d.
Castrating Forceps, for lambs, Fig. 138	0	4	6

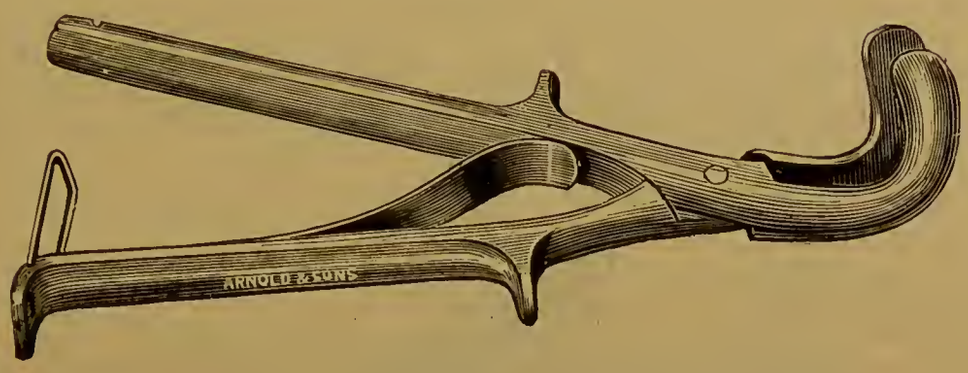


Fig. 139.

Castrating Forceps, for lambs, Australian pattern, bronzed, Fig. 139	0	4	6
Ditto ditto ditto superior, nickel-plated	0	6	6

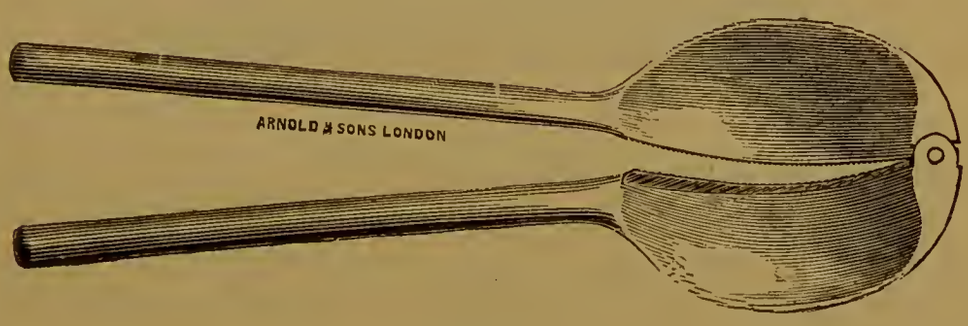


Fig. 140.

Castrating Clams, for lambs, with concave blades, Fig. 140 ...	0	15	0

Fig. 141.

Castrating Iron, for lambs, Fig. 141	0	3	0
Set of Instruments for castrating lambs, consisting of Clams and two irons, Figs. 140 and 141	1	1	0

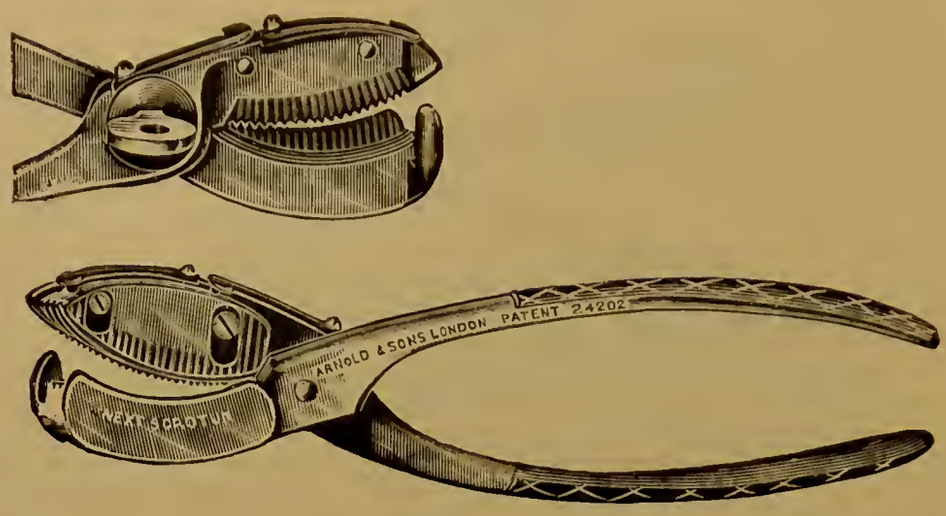


Fig. 142.

	£	s.	d.
Castrator, "Reliance" (Arnold & Sons' Patent), for Lambs, with improved springs and adjustable plate, nickel-plated, Fig. 142	2	2	0

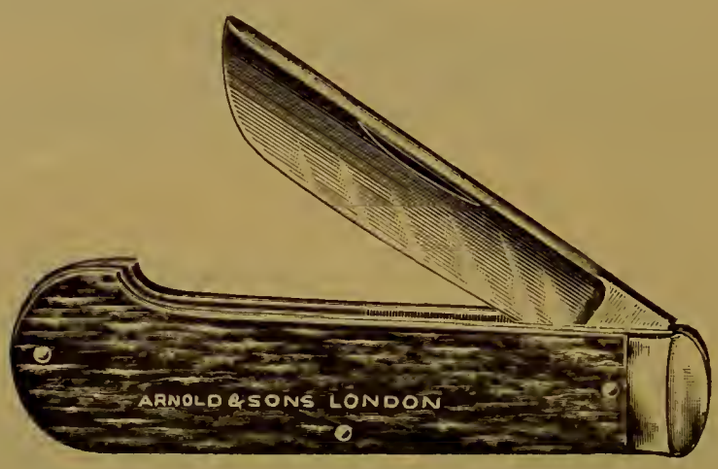


Fig. 143.

Castrating Knife, with spring back in stag handle, Fig. 143 ...	0	1	6

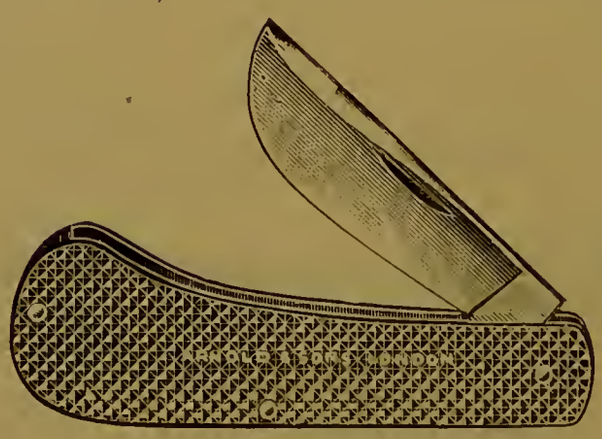


Fig. 144.

Castrating Knife, with spring back in chequered ebony handle, Fig. 144	0	2	0

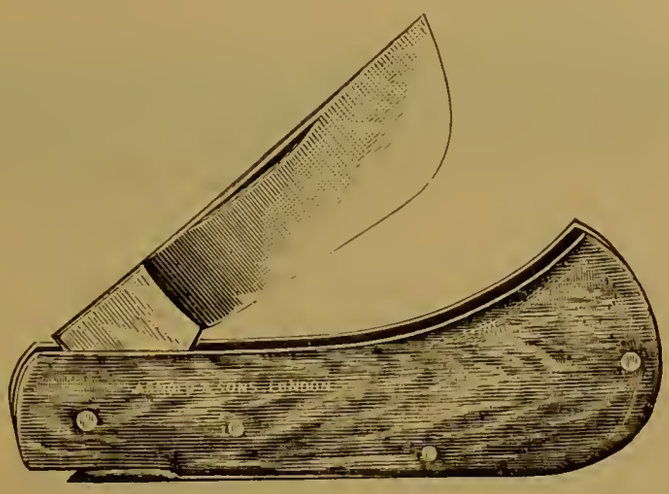


Fig. 145.

	£	s.	d.
Castrating Knife, with spring back, in horn handle, Fig. 145 ...	0	3	0
Ditto ditto ditto ... extra large	0	3	6
Ditto ditto ditto with French catch	0	4	0
Ditto ditto aseptic metal handle ...	0	3	6

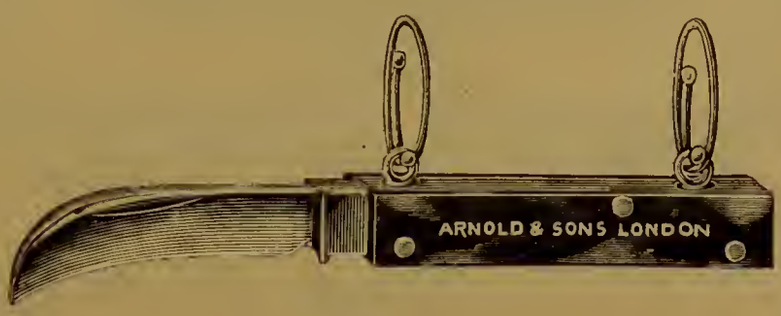


Fig. 146.

Castrating Knife (Dean's), with spring back and adjustable finger rings, in tortoiseshell handle, Fig. 146	0	10	6

Extract from "THE VETERINARY RECORD."

Messrs. ARNOLD & SONS, London, have made, at my suggestion, a castrating and embryotomy knife combined, which I think will be of great use to the veterinary surgeon. The advantages to be derived from using same are as follows: In castrating by standing operation, the blade of the knife, being hook-pointed, does not slip and cut the left hand as is often the case when using an ordinary castrating knife. It can be shut with the right hand, and retained there without leaving go of the testicle with the left, or having to pass the knife to anyone to hold. Any instrument can be used with the knife still fixed on to the middle finger of the right hand. In embryotomy the advantages to be gained are as follows: the operator can use the knife and shut it, within the uterus, without having to withdraw the hand as is the case with most other knives.

Fig. 147.

Castrating and Spaying Knife (Farmer Miles' pattern), with four blades, Fig. 147	0	17	6
Ditto ditto with single hooked blade only	0	4	6

Fig. 148.

	£	s.	d.
Castrating Knife (Matthews'), in fixed ebony handle with groove for needle, Fig. 148	0	3	6

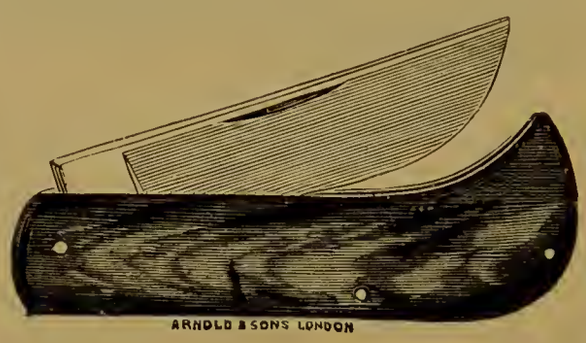


Fig. 149.

Spaying Knife, with spring back, in horn handle, Fig. 149... ...	0	3	0
Ditto ditto ditto in aseptic metal handle	0	3	6

Fig. 150.

Spaying Needles, Fig. 150 ... . per doz.	0	0	9
Ditto extra large ... ... ditto	0	1	0
Ditto grooved ... ... ditto	0	2	0
Ditto Scissors (Farmer Miles' pattern)	0	14	6
Ditto Harpoon ditto ditto	0	10	0

Fig. 151.

Castrating Iron, in fixed handle, Fig. 151	0	3	6
Ditto ditto, for socket handle	0	3	6

Fig. 152.

Socket Handle, for irons, Fig. 152	0	3	0

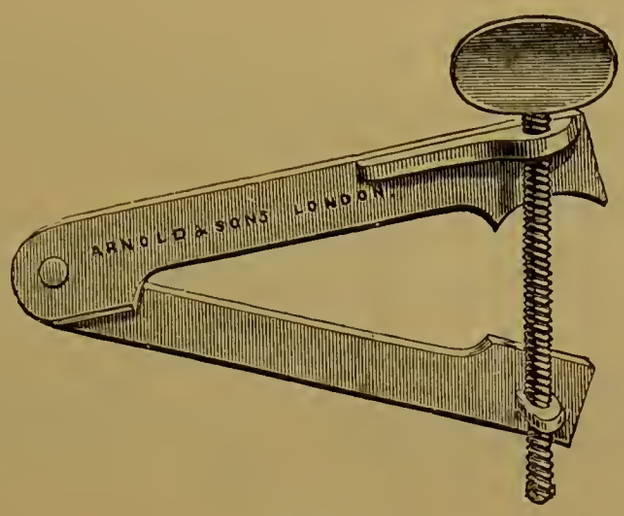


Fig. 153.

	£	s.	d.
Hernia Clam (Metherell's), steel, for umbilical hernia, Fig. 153 ...	0	12	0

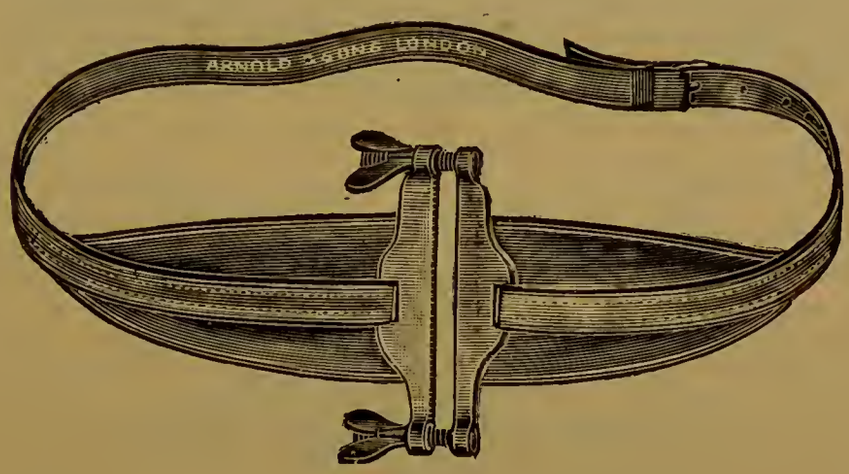


Fig. 154.

Hernia Clam, for umbilical hernia, with leather band complete, Fig. 154	0	12	6

Fig. 155.

Hernia Clam (Prof. Pritchard's), steel, Fig. 155	0	10	0

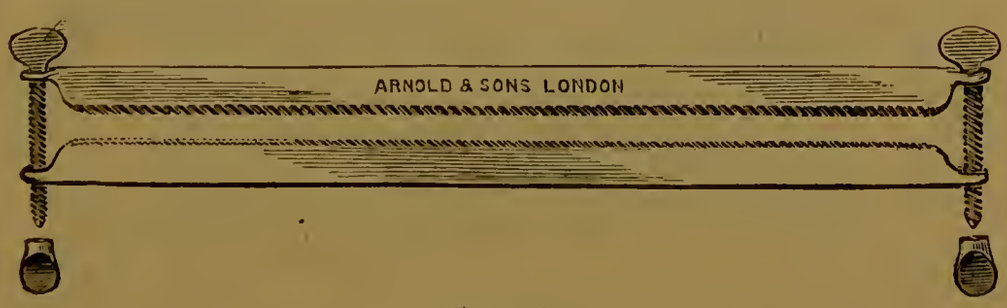


Fig. 156.

Hernia Clam (Captain Russell's), Scrotal, steel, nickel-plated, Fig. 156	0	19	0

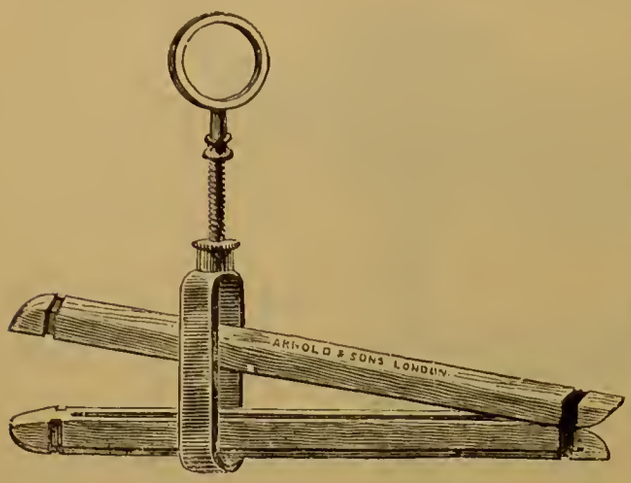


Fig. 157.

Fig. 158.

	£	s.	d.
Caustic Clams and Clamp (Gowing's), consisting of two clams and one clamp, complete, Fig. 157	0	8	6
Caustic Clam (Metherell's), with screw, for castrating bulls, rams, &c., Fig. 158	0	12	6

Fig. 159.

Castrating Clam, steel, for rams, &c., Fig. 159	0	7	0

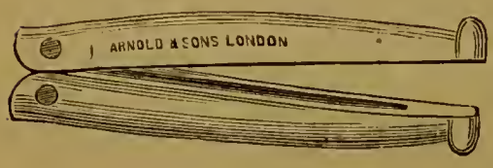


Fig. 160.

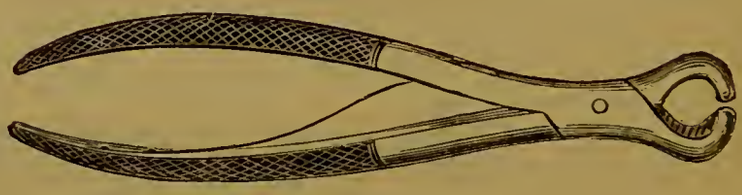


Fig. 161.

Caustic Clam (Wallis'), boxwood, Fig. 160	0	3	6
Forceps for closing above, Fig. 161	0	7	0

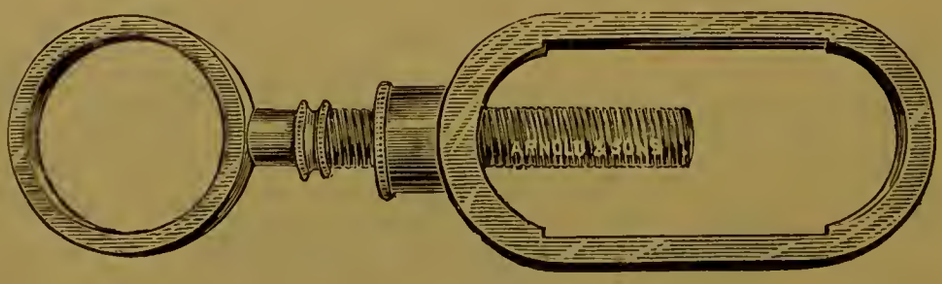


Fig 162.

Clamp (Gowing's), for closing caustic clams, Fig. 162 ... ,,	0	5	6

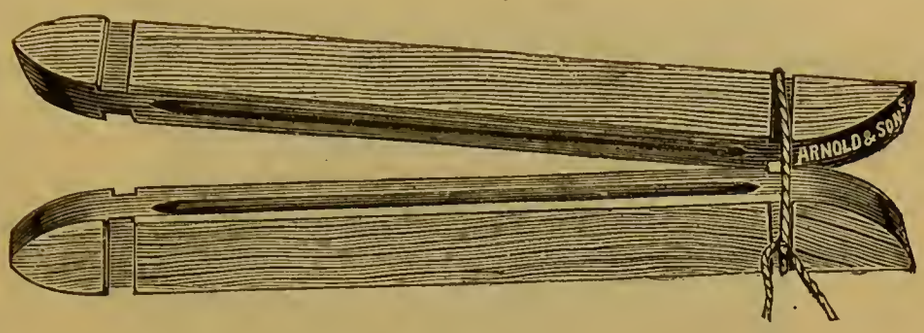


Fig. 163.

	£	s.	d.
Caustic Clam (Gowing's), plain pattern, Fig. 163	0	1	6

Fig. 164.

Caustic Clam (Varnell's), Fig. 164	0	2	0

Fig. 165.

Caustic Clam, with hinge joint and screw, Fig. 165	0	7	6

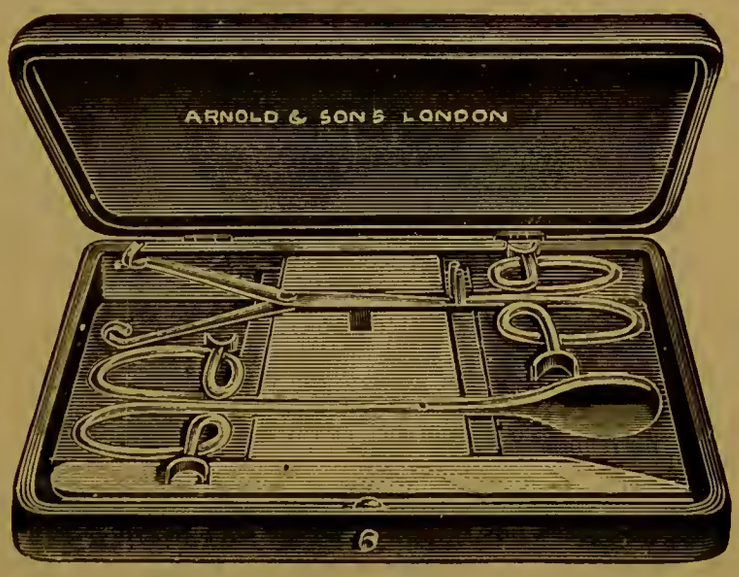


Fig. 166.

Caponing Set (Farmer Miles' pattern), consisting of forceps, spreader, and knife, in leather case, complete, Fig. 166	1	5	0

Fig. 167.

	£	s.	d.
Caponing Set (Simpson's), consisting of forceps, spreader, spring forceps and scalpel, in leather case, complete, Fig. 167 ...	1	7	6

Pocket Cases and Instruments.

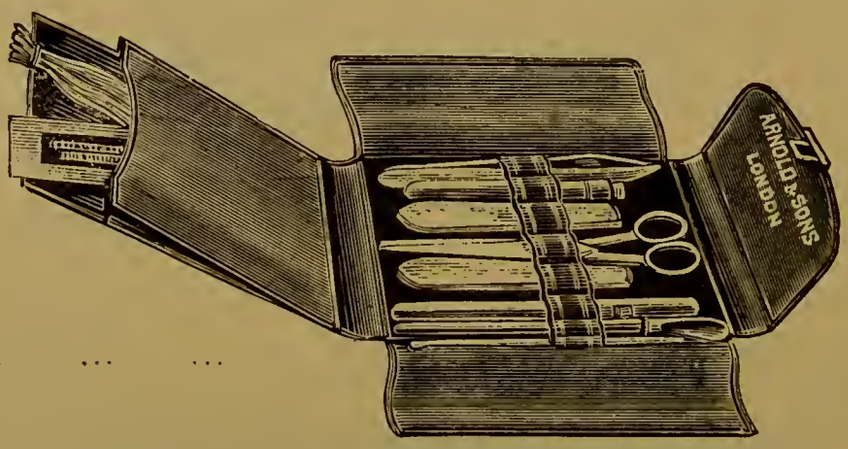


Fig. 168.

No. 1.—Morocco Leather Case (Prof. Hobday's) Registered, Fig. 168, containing :—

Abscess Knife, Symes', with spring back.
Scalpel, with spring back.
Dressing Scissors, straight.
Ditto Forceps, spring.
Exploring Needle, in plated case.
Clinical Thermometer (Prof. Hobday's).
Director, plated, with scoop.
Probe, ditto.
Hank Suture Silk.
Six Suture Needles.

	£	s.	d.
The above in aseptic metal handles, complete	1	3	6

Extract from "THE VETERINARY RECORD."

The drawing here represented is that of an instrument case which has been made at my suggestion by Messrs. ARNOLD & SONS, of West Smithfield, London, and which I think deserves to be brought under the notice of your readers. The case has been registered as "The Student's Pocket Case," and is particularly intended for use at the Free Clinique.

The design of the case is a little different to that usually made, the flaps not folding over one another as is general, but opening something like a reporter's note-book. It is specially made flat in order that it can be carried without inconvenience in the breast pocket; it certainly occupies no more space than an ordinary pocket-book.

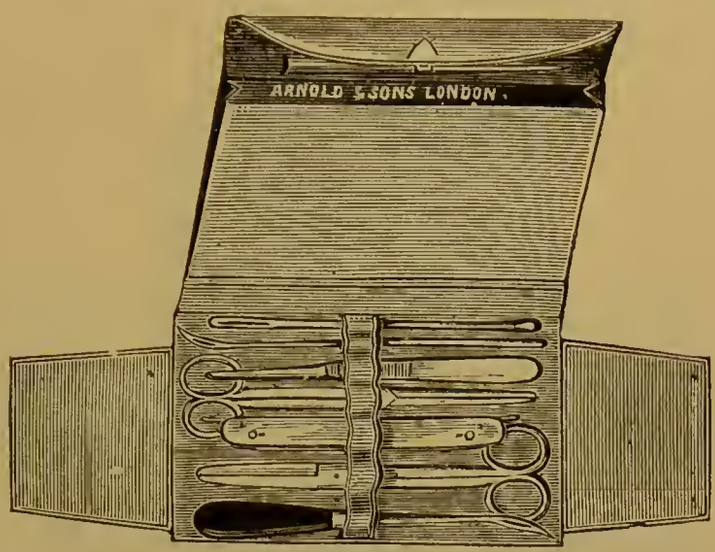


Fig. 169.

No. 2.—Leather Case (Prof. Shave's), Fig. 169, containing :—

1 Two-bladed Knife, with lock back.
1 Dressing Scissors, Curved.
Ditto Forceps, Bow.
1 Spring Forceps.
1 Aneurism Needle and Director.
Silver Probe.
Suture Needle, in handle.
Two Suture Needles.
Hank Suture Silk.

	£	s.	d.
The above Set, complete	1	10	0

Fig. 170.

No. 3.—Morocco Leather Case, with gilt spring lock, Fig. 170, containing :—

1 Bistoury, curved, probe-pointed, with spring back.
1 Castrating Knife, with spring back.
1 Scalpel, ditto.
1 Dressing Forceps, bow.
Ditto Scissors.
Abscess Lancet.
Director, steel, with bow
Silver Probe.
Caustic Case, plated.
Six Suture Needles.
Hank Plated Suture Wire.

	£	s.	d.
The above, in horn handles, complete	1	19	6
Ditto with knives in aseptic metal handles	2	2	0

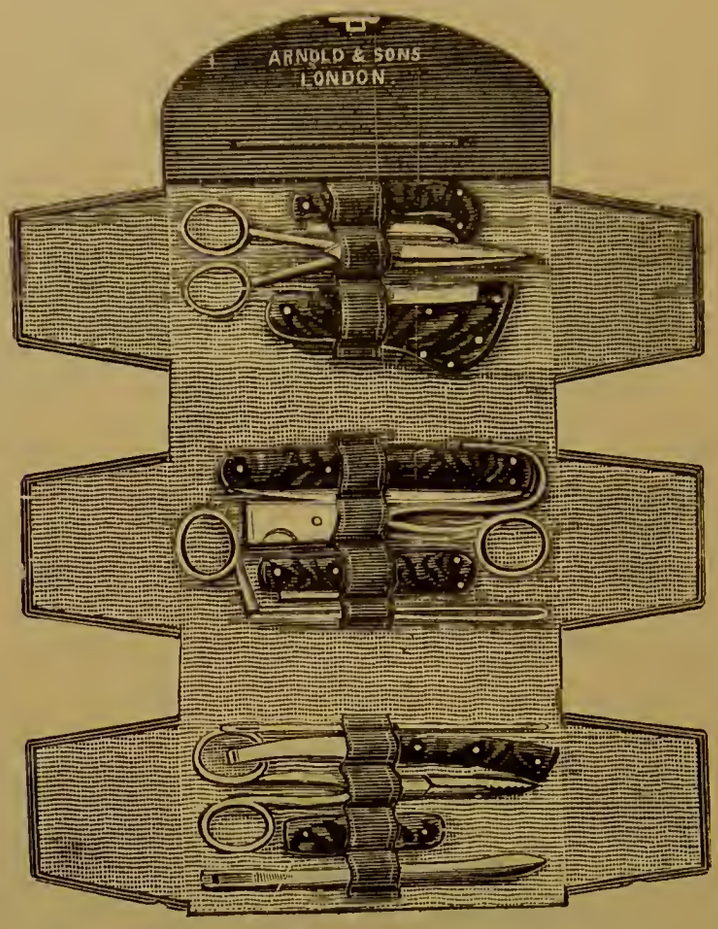


Fig. 171.

No. 4.—Morocco Leather Case, with gilt spring lock, Fig. 171, containing :—

Bistoury, curved, probe-pointed, with spring back.
Castrating Knife, with spring back.
Scalpel, ditto.
Fleam, with improved back.
Dressing Forceps, bow.
Ditto Scissors.
Drawing Knife.
Seton Needle.
Rowelling Bistoury.
Abscess Lancet.
Director, steel, with bow.
Silver Probe.
Six Suture Needles.
Hank Plated Suture Wire.

	£	s.	d.
The above, in horn handles, complete	2	10	0
Ditto with knives in aseptic metal handles	2	14	0

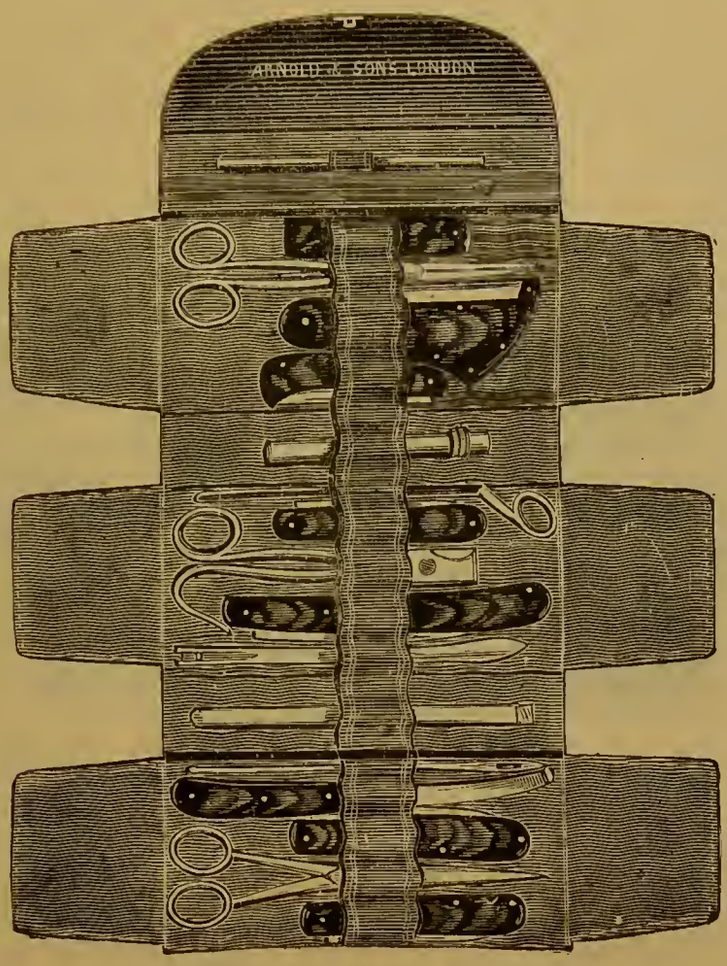


Fig. 172.

No. 5.—Morocco Leather Case, with gilt spring lock, Fig. 172, containing :—

1 Bistoury, curved, probe-pointed, with spring back.
1 Castrating Knife, with spring back.
1 Scalpel, ditto
1 Abscess Knife, ditto
1 Gum Lancet, ditto
1 Fleam, with improved back.
1 Artery Forceps, with catch (Spencer Wells').
1 Dressing Scissors.
1 Drawing Knife.
1 Seton Needle.
1 Rowelling Bistoury.
1 Abscess Lancet.
1 Exploring Needle, in plated case.
1 Caustic Case, Silver.
1 Director, steel, with bow.
1 Silver Probe.
1 Hank Plated Wire.
1 Six Suture Needles.

	£	s.	d.
The above, in horn handles, complete	3	10	0
Ditto with knives in aseptic metal handles	3	15	0
Regulation Pouch, War Office pattern, complete	4	10	0

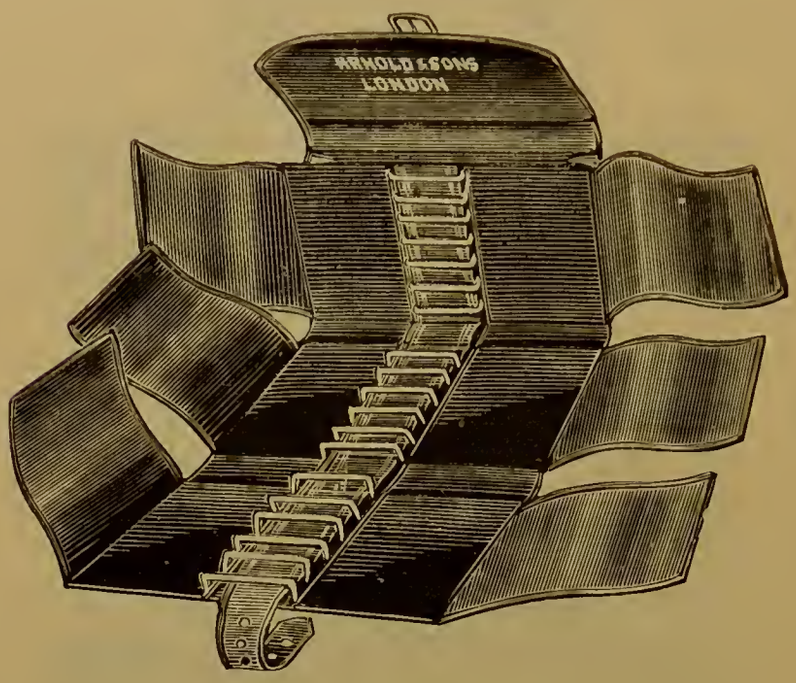


Fig. 173.

	£	s.	d.
Pocket Case (Gillam's), improved, with two folds	0	10	6
Ditto ditto ditto three folds, Fig. 173 ...	0	12	6

Extract from "THE VETERINARIAN."

I thought it would be of interest to bring before the notice of the readers of *The Veterinarian* a new style of instrument case made for me by Messrs. ARNOLD & SONS, of West Smithfield, London. It is one which I think will be specially serviceable for country practitioners.

Extract from "THE VETERINARY JOURNAL."

It possesses the following advantages:—1st. By means of a strap running through metal loops, the leather loops which hold the instruments can be enlarged or made smaller to accommodate any sized pocket instrument. 2nd. Being lined with leather (and not with the usual silk) it is easily kept clean. 3rd. By withdrawal of the strap from the metal loops, all corners in which dirt would be likely to accumulate can be thoroughly cleaned.

It is made of leather, and is stronger and more durable than the ordinary pocket cases; it measures when closed 8 in. by 4 in. by 1 in.

	£	s.	d.
Pocket Cases, morocco leather, empty 5s., 10s. 6d., 12s. 6d., and	0	15	0

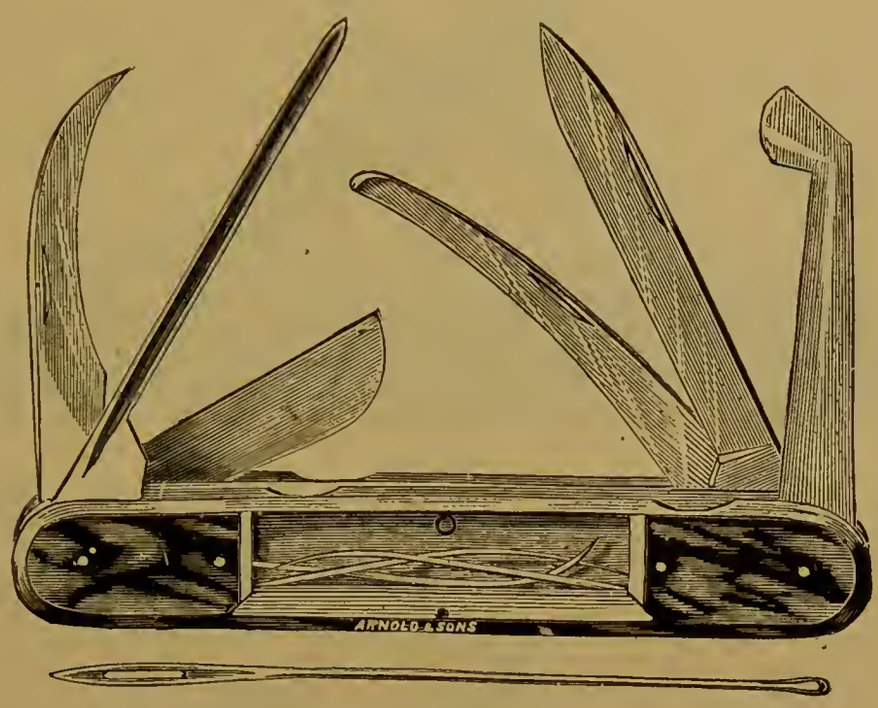


Fig. 174.

"Compactum" Knife (Arnold & Sons), with receptacle for needles, Fig. 174, containing :—

Castrating Knife.	Gum Lancet.
Bistoury, probe-pointed.	Exploring Needle.
Scalpel.	Silver Probe.
Symes' Abscess Knife.	

	£	s.	d.
The above in horn handles, complete...	1	5	0

Fig. 175.

Operating Knife, aseptic, with four blades fitting into metal handle, Fig. 175	0	15	0

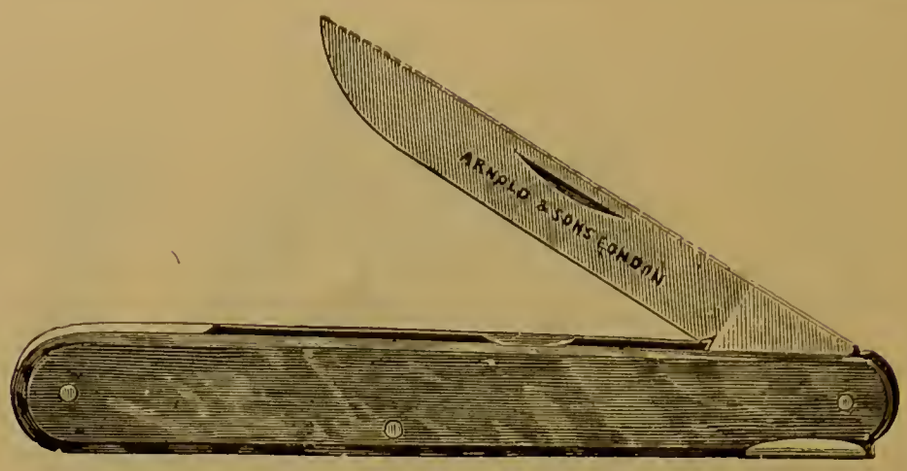


Fig. 176.

	£	s.	d.
Operating Knife (Gowing's), with spring back and French catch, in tortoiseshell handle, Fig. 176	0	6	6
Ditto ditto ditto ditto in aseptic metal handle ...	0	7	0

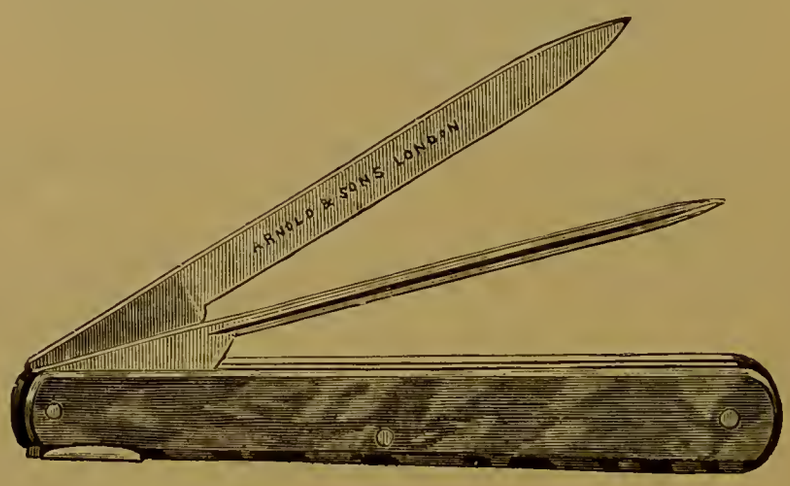


Fig. 177.

Exploring Needle and Abscess Knife (Gowing's), with spring back and French catch, in tortoiseshell handle, Fig. 177 ...	0	9	0
Ditto ditto ditto in aseptic metal handle	0	9	6

Fig. 178.

Abscess Knife (Symes'), with spring back, in horn handle, Fig. 178	0	3	0
Ditto ditto ditto and French catch	0	4	0
Ditto ditto ditto in aseptic metal handle ...	0	3	6

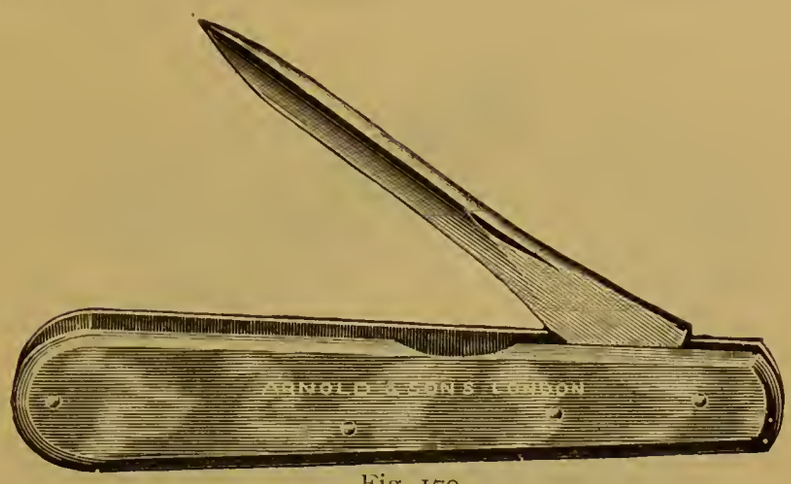


Fig. 179.

	£	s.	d.
Abscess Knife (Paget's), with spring back, in horn handle, Fig. 179	0	3	0
Ditto ditto ditto ditto and French catch	0	4	0
Ditto ditto ditto ditto in aseptic metal handle ...	0	3	6

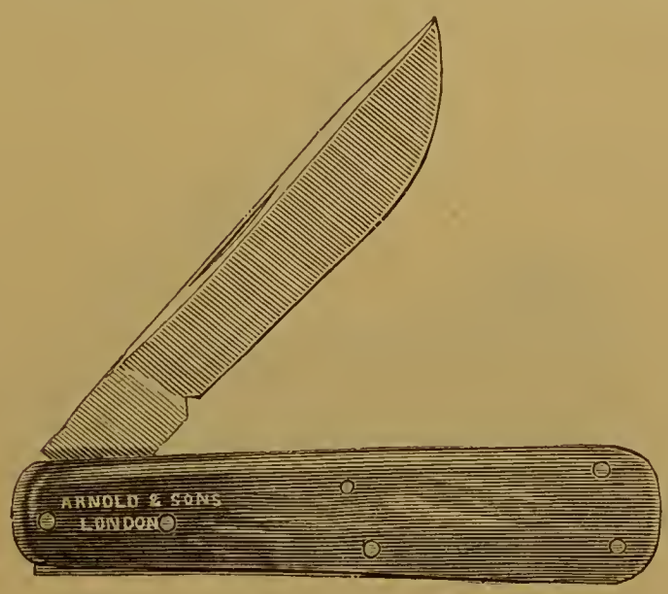


Fig. 180.

Operating Scalpel, with spring back, in horn handle, Fig. 180 ...	0	3	0
Ditto ditto ditto and French catch	0	4	0
Ditto ditto ditto in aseptic metal handle	0	3	6

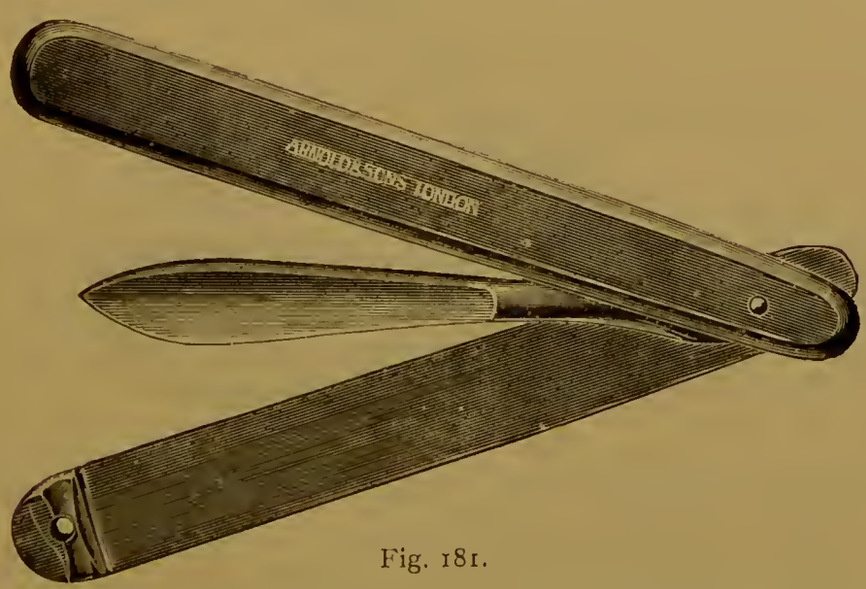


Fig. 181.

Operating Scalpel (Prof. Pritchard's), in aseptic metal handle, Fig. 181	0	5	6

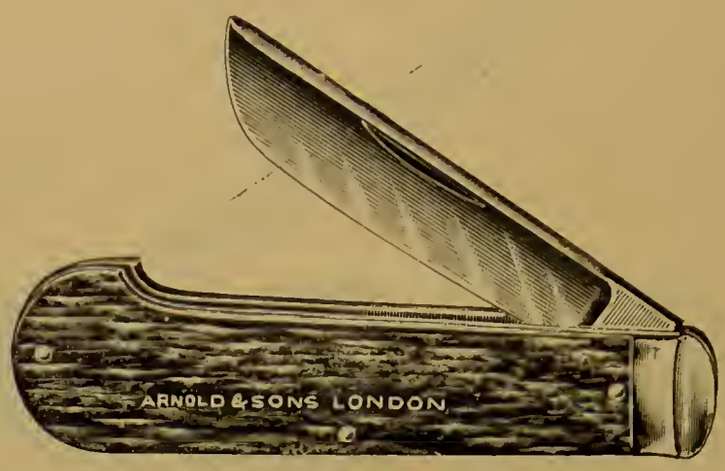


Fig. 182.

	£	s.	d.
Castrating Knife, with spring back, in stag handle, Fig. 182 ...	0	1	6

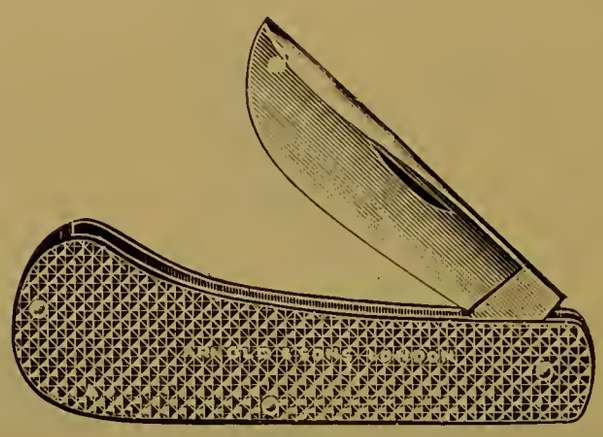


Fig. 183.

Castrating Knife, with spring back, in chequered ebony handle, Fig. 183	0	2	0

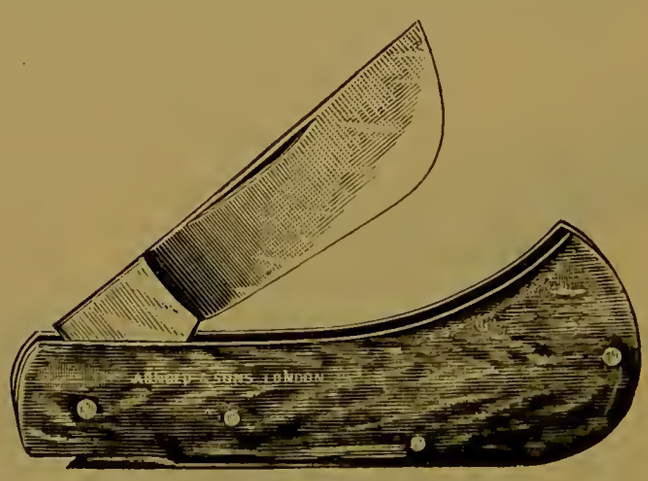


Fig. 184.

Castrating Knife, with spring back, in horn handle, Fig. 184 ...	0	3	0
Ditto ditto ditto extra large	0	3	6
Ditto ditto ditto and French catch	0	4	0
Ditto ditto ditto in aseptic metal handle	0	3	6

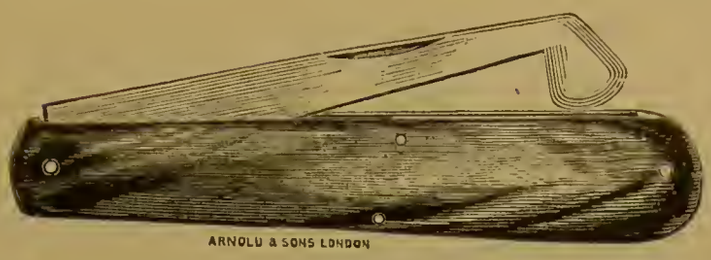


Fig. 185.

	£	s.	d.
Gum Lancet, with spring back, horn handle, Fig. 185	0	3	0
Ditto ditto ditto ditto extra long and strong ...	0	6	6
Ditto ditto ditto ditto and French catch ...	0	4	0
Ditto ditto ditto aseptic metal handle	0	3	6

Fig. 186.

Gum Lancet (Gowing's), scale-tang, rosewood handle, extra long, Fig. 186	0	9	6

Fig. 187.

Bistoury, curved, probe-pointed, with spring back, horn handle, Fig. 187	0	5	0
Ditto ditto ditto ditto and French catch	0	6	0
Ditto ditto ditto ditto aseptic metal handle ...	0	5	6

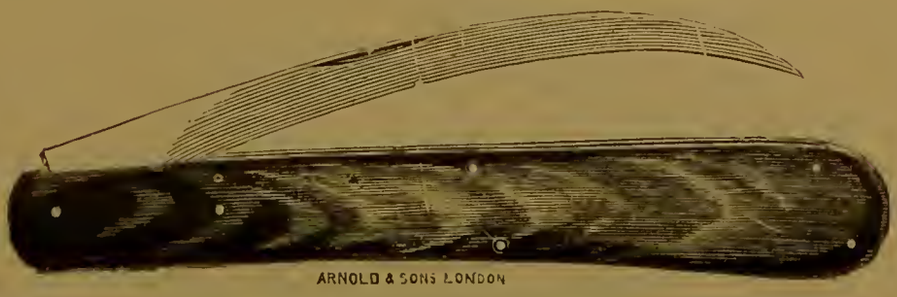


Fig. 188.

Bistoury, curved, sharp-pointed, with spring back, horn handle, Fig. 188	0	5	0
Ditto ditto ditto ditto and French catch	0	6	0
Ditto ditto ditto ditto aseptic metal handle ...	0	5	6

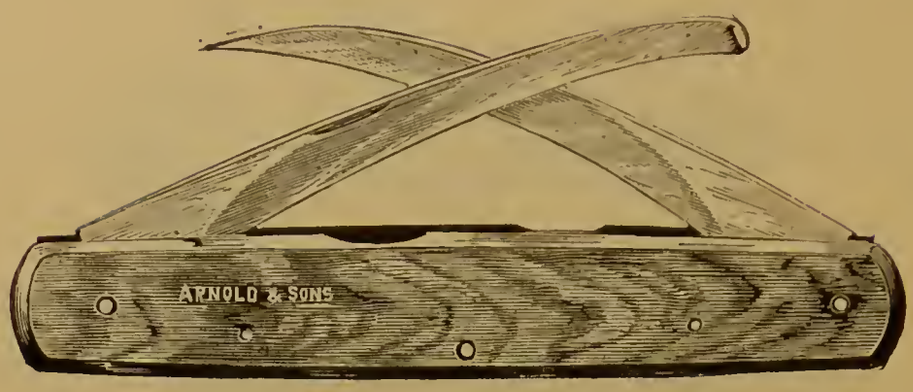


Fig. 189.

	£	s.	d.
Bistoury, double, curved, sharp and probe-pointed, with spring back, horn handle, Fig. 189	0	9	0
Ditto ditto ditto ditto aseptic metal handle ...	0	9	6

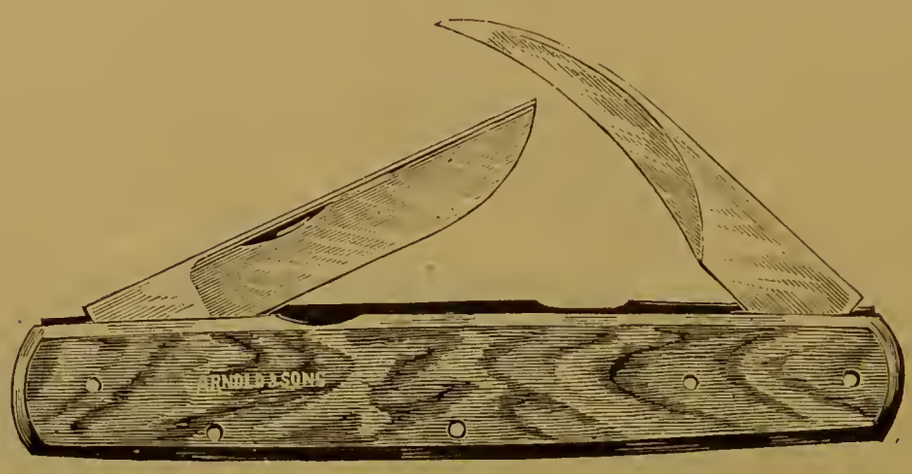


Fig. 190.

Scalpel and Symes' Abscess Knife, with spring back, horn handle, Fig. 190	0	8	0
Ditto ditto ditto ditto aseptic metal handle ...	0	8	6

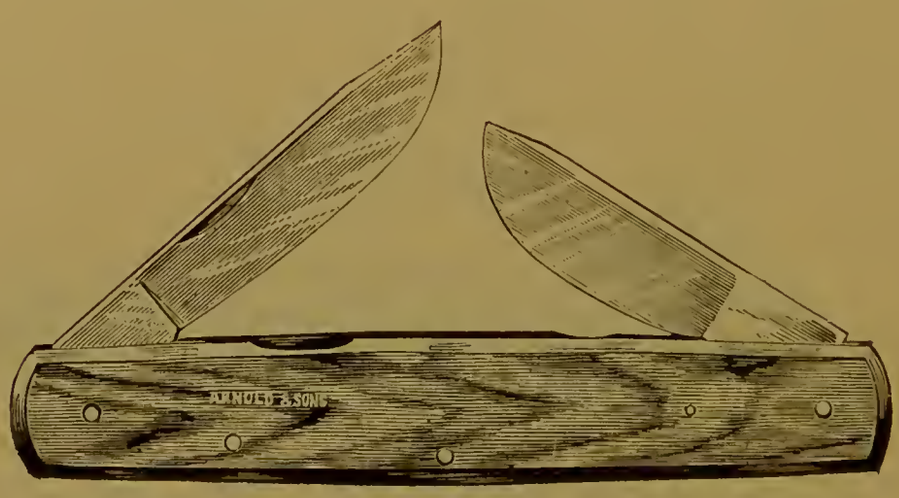


Fig. 191.

Castrating Knife and Scalpel, with spring back, horn handle, Fig. 191	0	8	0
Ditto ditto ditto ditto aseptic metal handle ...	0	8	6

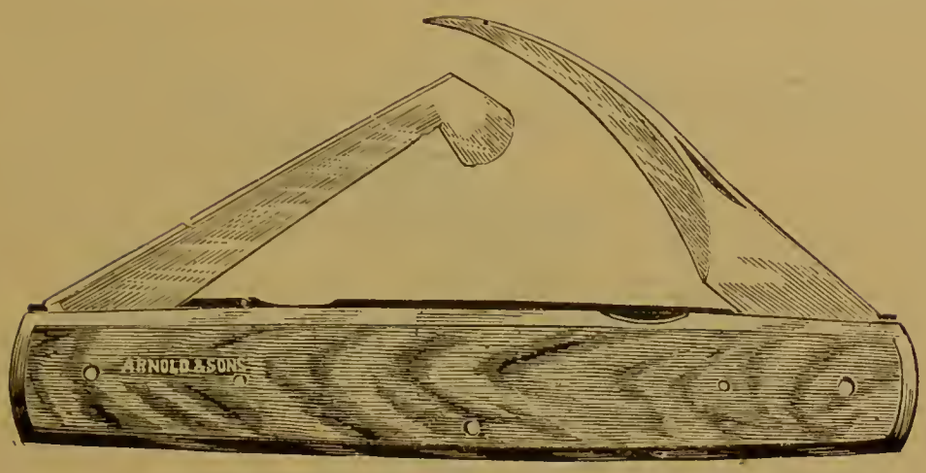


Fig. 192.

	£	s.	d.
Gum Lancet and Symes' Abscess Knife, with spring back, horn handle, Fig. 192	0	8	0
Ditto ditto ditto ditto aseptic metal handle ...	0	8	6

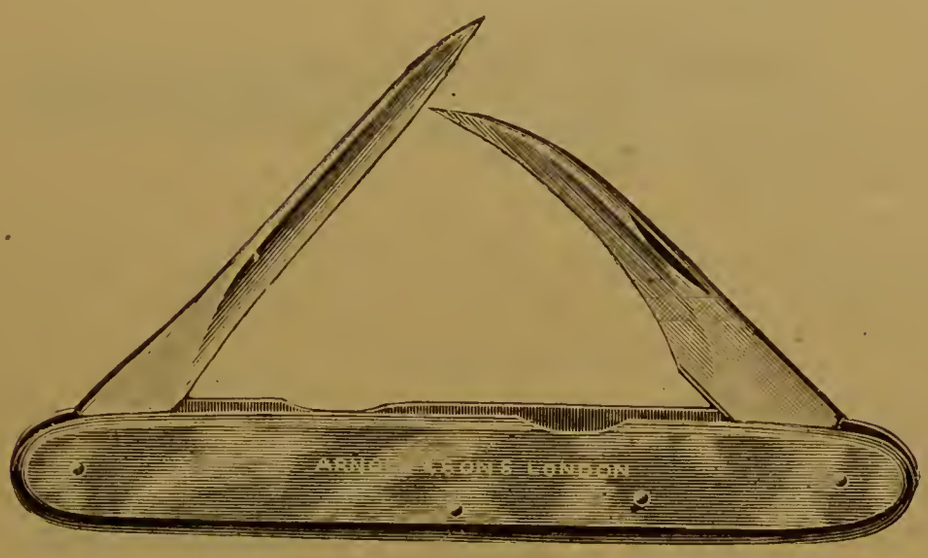


Fig. 193.

Abscess Knife (Symes' & Paget's), with spring back, horn handle, Fig. 193	0	8	0
Ditto ditto ditto ditto aseptic metal handle ...	0	8	6

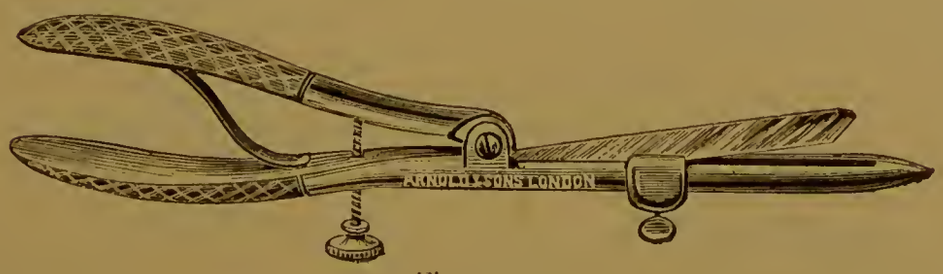


Fig. 194.

Abscess Knife (Edgar's), with regulating slide, Fig. 194	0	15	0

Extract from "THE VETERINARIAN."

This instrument, which will go in an ordinary pocket-case, consists of a director and concealed knife, made to open scissor-fashion; the director is drawn out to a point for making the puncture, and the blade shaped somewhat like the concealed knife of a *Bistouri-caché* for enlarging the incision. A screw and slide on the director regulate the depth, and another screw on the handle regulates the extent of the incision.

In opening abscesses about the parotid and submaxillary glands, a large and even dangerous incision is sometimes made if the animal struggles. With this lancet such an accident is impossible.

Messrs. ARNOLD AND SONS, West Smithfield, London, are the makers.

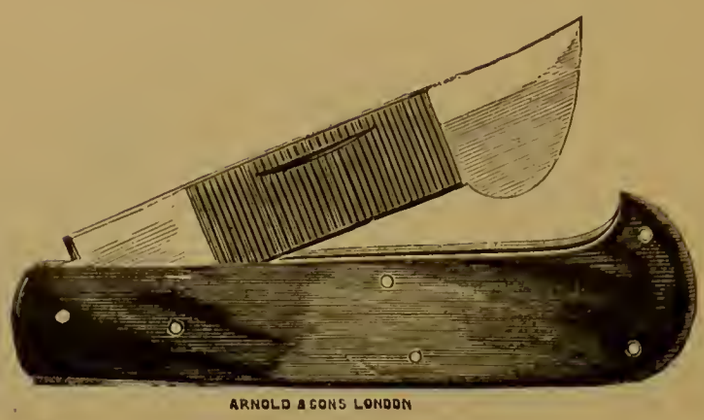


Fig. 195.

	£	s.	d.
Nicking Knife, with spring back, horn handle, Fig. 195	0	3	6

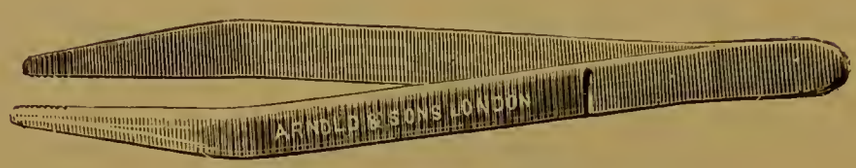


Fig. 196.

Dressing Forceps, spring, Fig. 196 ... ... $4\frac{1}{2}$-in. 2s. ; 5 or 6-in.	0	2	6
Ditto ditto fluted, nickel-plated $4\frac{1}{2}$-in. 2s. 6d. ; 5 or 6-in.	0	3	0

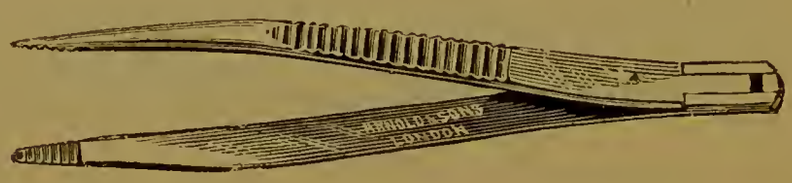


Fig. 197.

Dressing Forceps, spring, fluted, aseptic, to take apart, nickel-plated, Fig. 197	0	3	6

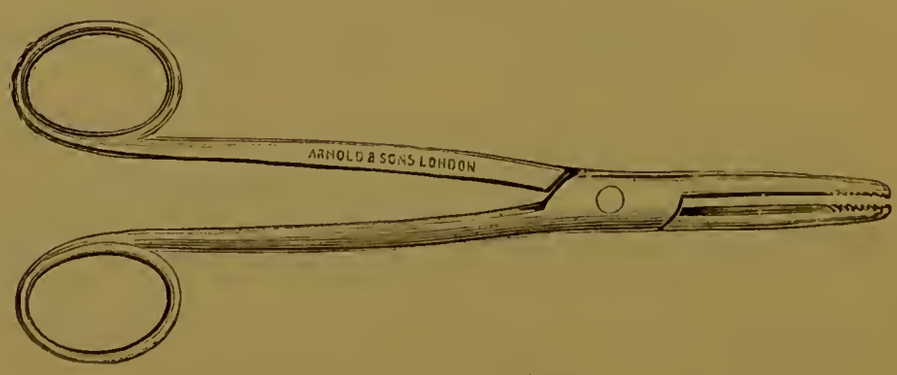


Fig. 198.

Dressing Forceps, bow, plain pattern, Fig. 198	0	2	6

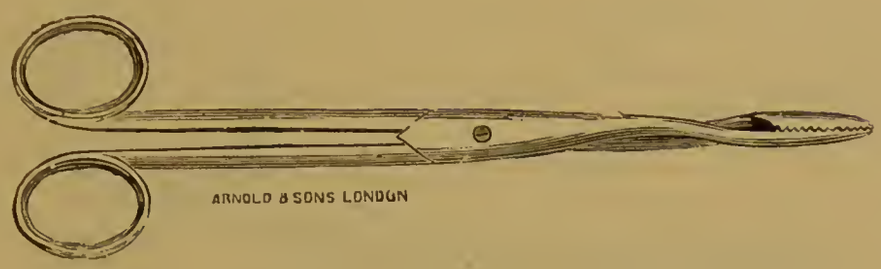


Fig. 199.

	£	s	d.
Dressing Forceps, bow, with cross action, Fig. 199	0	3	6
Ditto ditto ditto aseptic, with take off joint ...	0	4	0

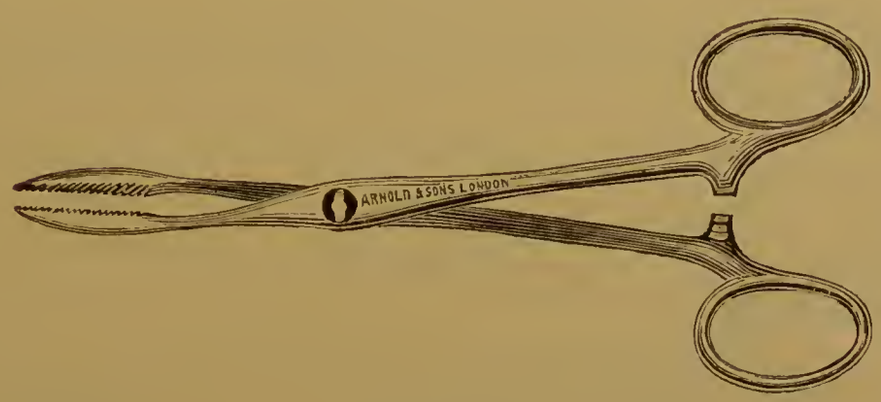


Fig. 200.

Artery Forceps (Pean's), aseptic, with take off joint, nickel-plated, Fig. 200	0	4	0

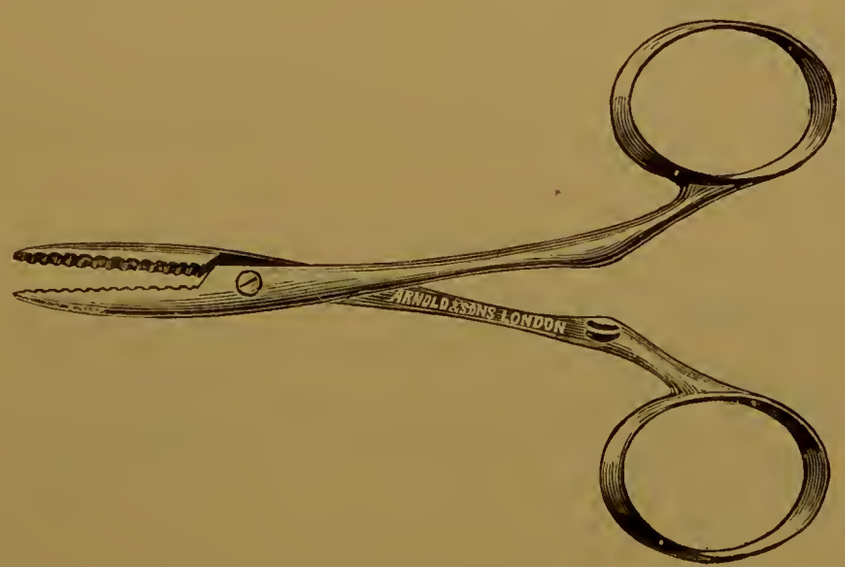


Fig. 201.

Artery Forceps (Spencer Wells'), Fig. 201	0	4	6
Ditto ditto nickel-plated	0	5	0

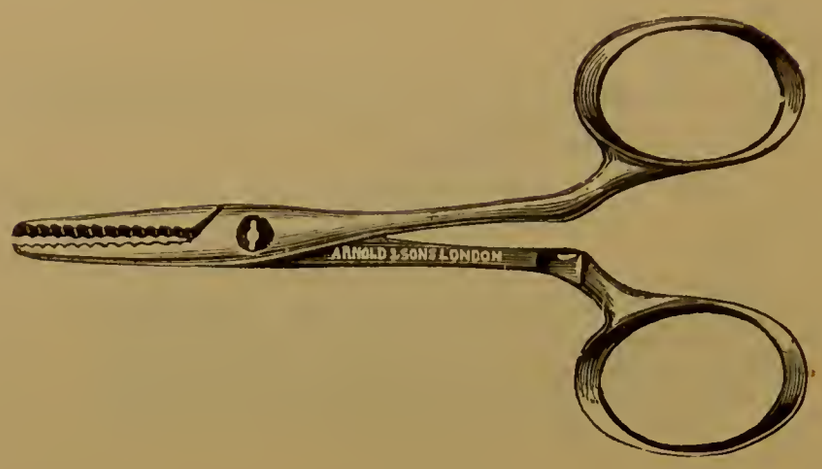


Fig. 202.

	£	s.	d.
Artery Forceps (Spencer Wells'), aseptic, with take off joint, nickel-plated, Fig. 202	0	5	6

Fig. 203.

Artery Forceps (Spencer Wells'), angular, Fig. 203	0	5	0
Ditto ditto ditto ditto nickel-plated	0	5	6
Ditto ditto ditto ditto aseptic, with take off joint	0	6	0

Fig. 204.

Artery Forceps (Thornton's), nickel-plated, Fig. 204	0	8	6
Ditto ditto ditto ditto aseptic, with take off joint...	0	9	0

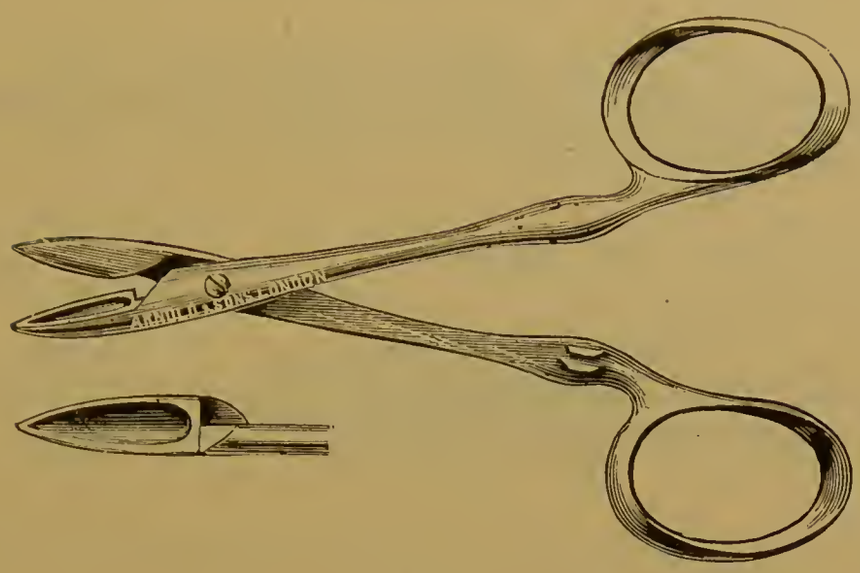


Fig. 205.

	£	s.	d.
Artery Forceps (Greig Smith's), fine, nickel-plated, Fig. 205 ...	0	6	6

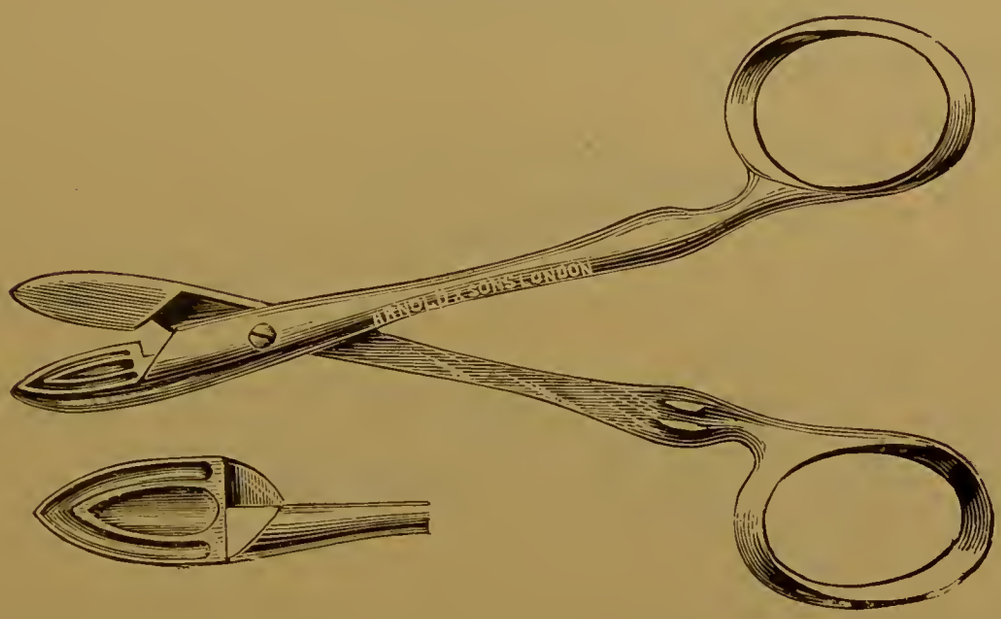


Fig. 206.

Artery Forceps (Greig Smith's), large, nickel-plated, assorted sizes, Fig. 206 ... ... 8s. 6d., 10s. 6d., 12s. 6d., and	0	15	0

Extract from "THE VETERINARY RECORD."

The pattern to which I desire to draw the attention of the profession is that brought out by Professor Greig Smith, and having sufficient evidence of its practical utility I can with confidence recommend it as decidedly superior to those already in existence.

The opposing surfaces of the jaws are grooved in a manner resembling a hawk's bill, and the shape, tapering to a point, permits small deep-seated vessels to be easily secured, and the ligature slipped on the vessel with facility. These forceps retain a very firm grip of the vessel and are not liable to leave go their hold. In veterinary surgery we frequently encounter cases in which the vessels are very difficult to secure, such as in operations on fistulous withers, poll-evil, and schirrous cord; these forceps will be found very useful and advantageous by the practitioner in such instances.

They are made in various sizes; the smallest only possessing a single groove is useful in canine surgery. The largest size with long handles will prove of great value in major operations where large vessels may be encountered, and the facility with which these may be secured and ligatured must be apparent to all who use them. They are manufactured by Messrs. ARNOLD AND SONS, London.

E. WALLIS HOARE.

Fig. 207.

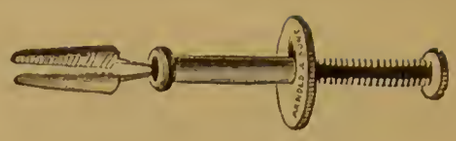


Fig. 208.

	£	s.	d.
Artery Forceps (Dieffenbach's), Fig. 207	0	2	6
Ditto (Arnold & Sons'), with improved spring, Fig. 208 ...	0	5	0

Fig. 209.

Artery Forceps (Symes'), Fig. 209	0	4	6

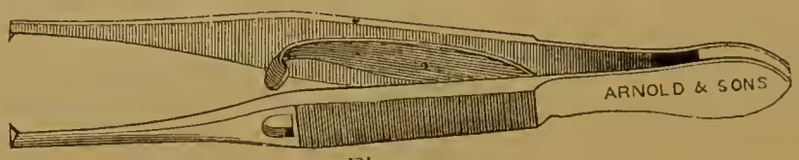


Fig. 210.

Artery Forceps (Liston's), Fig. 210	0	5	0

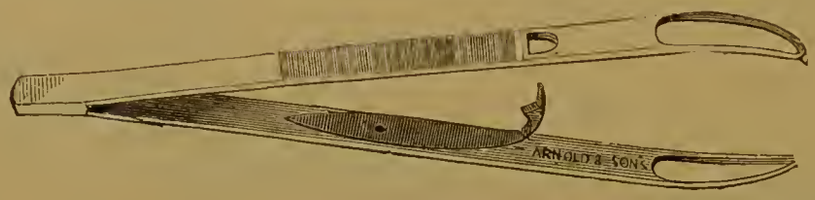


Fig. 211.

Artery Forceps (Luer's), Fig. 211	0	6	0

Fig. 212.

Artery Forceps (Luer's), aseptic, to take apart, nickel-plated, Fig. 212	0	7	0

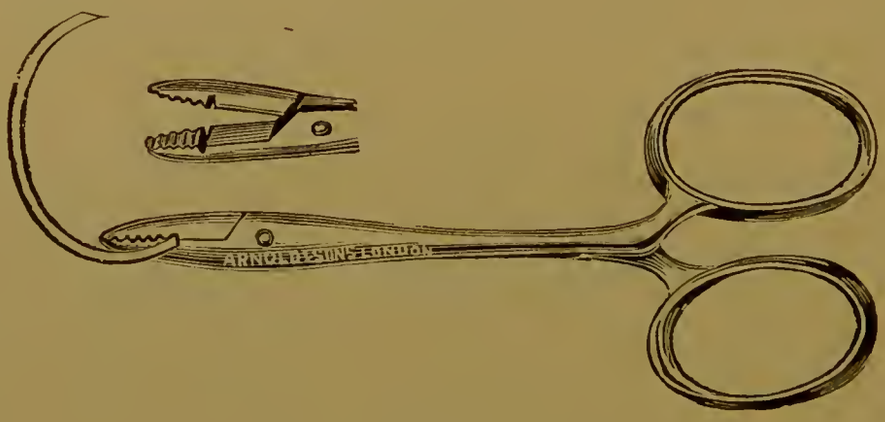


Fig. 213.

Artery Forceps, and Needle Holder, combined (Bruce Clarke's), nickel-plated, for Hagedorn's and ordinary needles, Fig. 213 ...	0	6	0
Ditto ditto ditto aseptic, with take off joint	0	6	6

Fig. 214.

	£	s.	d.
Torsion Forceps, with slide, Fig. 214	0	9	0
Ditto ditto extra large	0	12	6

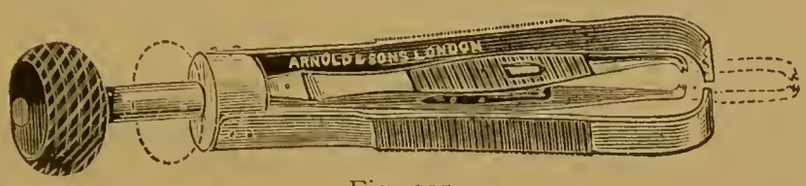


Fig. 215.

Torsion Forceps (Nash's), rotating, Fig. 215	0	15	0

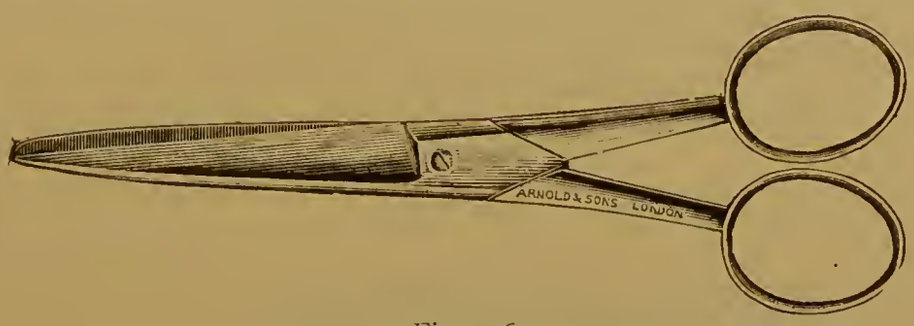


Fig. 216.

Dressing Scissors, open shanks, Fig. 216	0	2	6

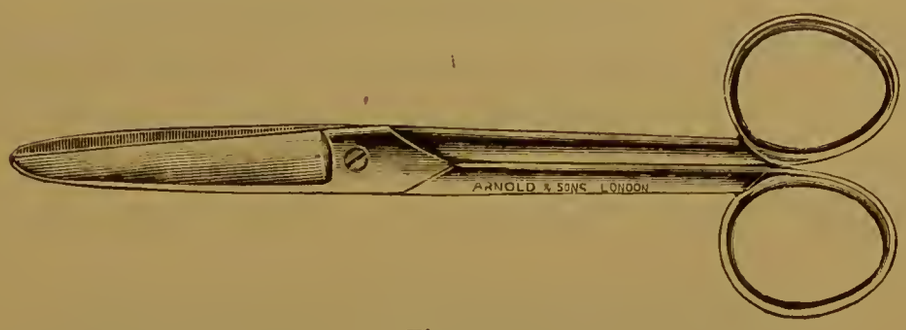


Fig. 217.

Dressing Scissors, close shanks, blunt or sharp pointed, Fig. 217 ...	0	3	0
Ditto ditto ditto ditto aseptic, with take off joint...	0	3	6

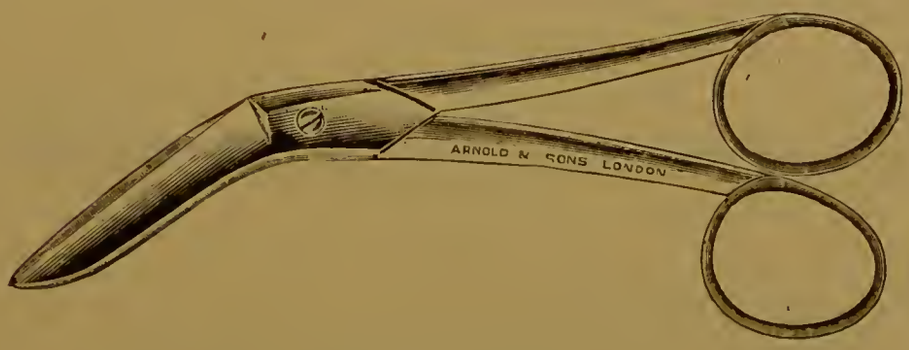


Fig. 218.

Dressing Scissors, angular, small, Fig. 218	0	3	6
Ditto ditto ditto aseptic, with take off joint	0	4	0
Ditto ditto ditto large	0	4	6
Ditto ditto ditto aseptic, with take off joint	0	5	0

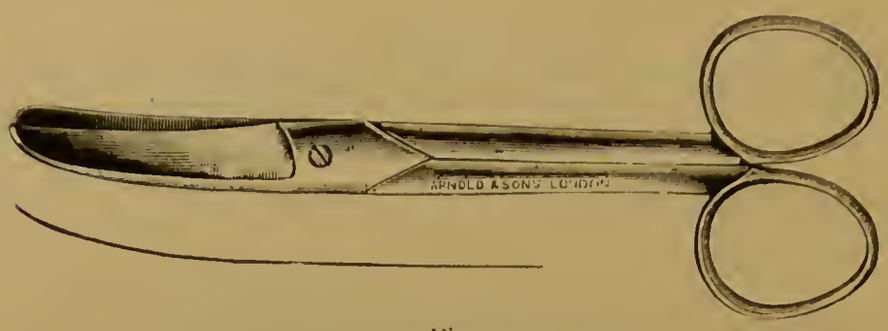


Fig. 219.

	£	s.	d.
Dressing Scissors, curved on flat, blunt or sharp pointed, Fig. 219 ... ... 4s. 6d. and	0	5	0
Ditto ditto ditto aseptic, with take off joint 5s. and	0	5	6

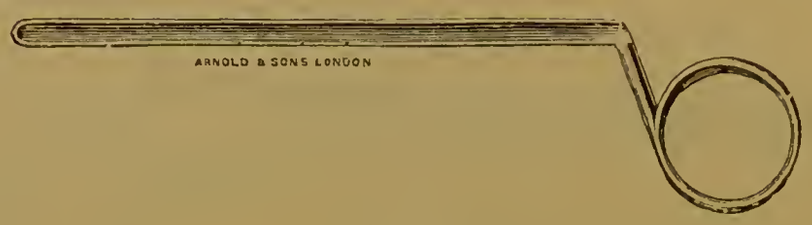


Fig. 220.

Director, steel, with bow, Fig. 220	0	2	0

Fig. 221.

Director, with scoop, plated, Fig. 221...	0	1	6
Ditto ditto silver	0	3	6

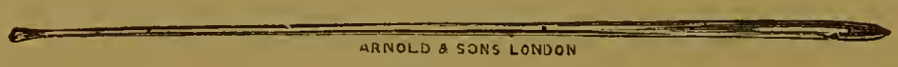


Fig. 222.

Probe, silver, extra stout, Fig. 222	0	1	6

Fig. 223.

Probe, whalebone, various lengths, Fig. 223 ... ... per inch	0	0	2
Ditto spiral wire (flexible)	0	2	6
Ditto plated, extra long	0	3	0
Ditto silver ditto	0	5	0
Ditto metallic, various lengths ... 1s., 1s. 6d. and	0	2	0
Ditto celluloid ditto ... ... 1s. 6d. and	0	2	0

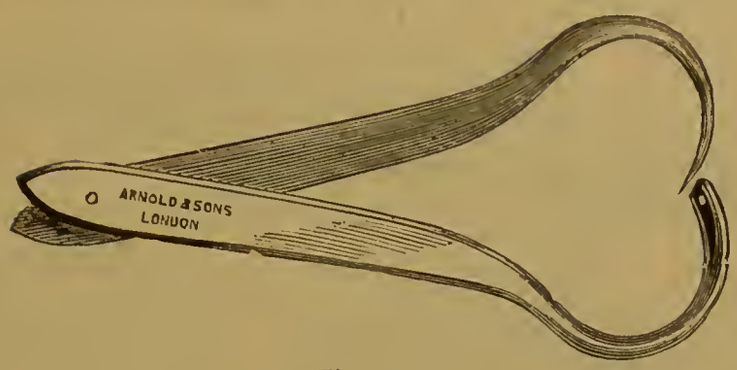


Fig. 224.

	£	s.	d.
Aneurism Needle and Tenaculum, jointed, Fig. 224...	0	3	0

Fig. 225.

Aneurism Needle and Director, plated, Fig. 225	0	2	6

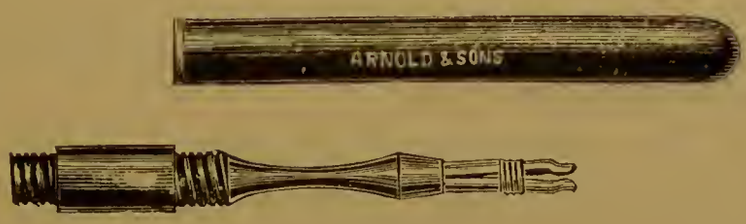


Fig. 226.

Caustic Case, ebony, with silver-gilt holder, Fig. 226	0	3	0

Fig. 227.

Caustic Case, plated, with silver-gilt holder, Fig. 227	0	3	6
Ditto ditto ditto ditto and exploring needle ...	0	7	6
Ditto vulcanite	0	1	6
Ditto ivory	0	2	6

Fig. 228.

Caustic Case, silver, with slide holder, Fig. 228	0	6	0

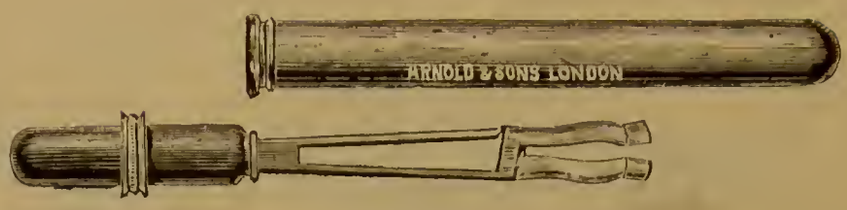


Fig. 229.

	£	s.	d.
Caustic Case, silver (Arnold & Sons'), with seamless tube and platinum spring holder, adjustable to any size caustic, Fig. 229, three sizes ... ... each 12s. 6d., 15s. and	0	17	6

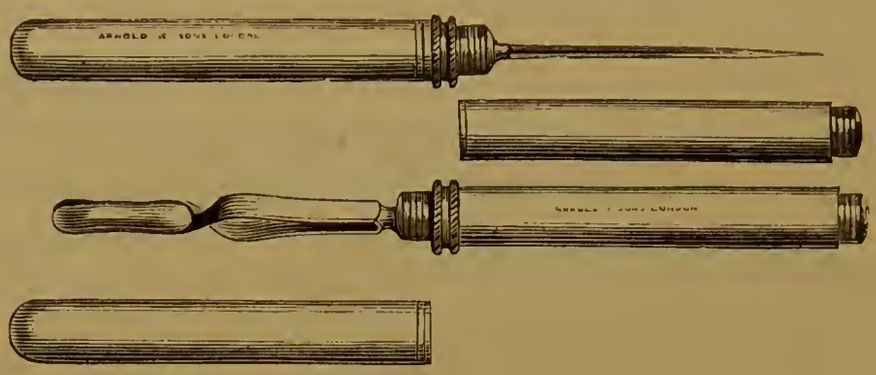


Fig. 230.

Caustic Case, silver (Arnold & Sons'), with seamless tube and exploring needle, Fig. 230	0	16	0
Ditto plated ditto	0	7	6

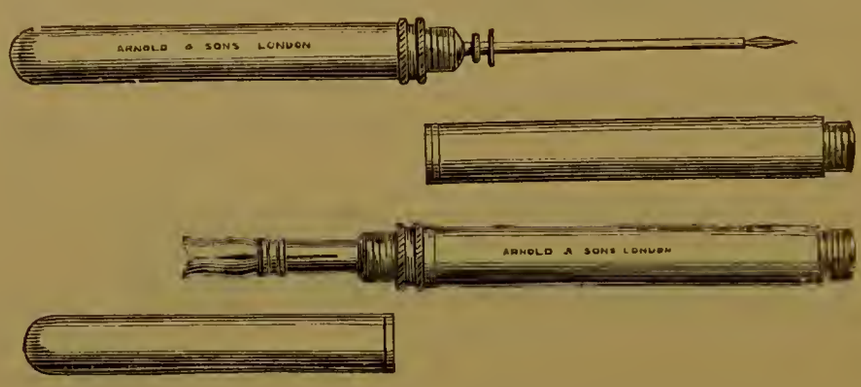


Fig. 231.

Caustic Case, silver (Arnold & Sons'), with seamless tube and exploring trocar, Fig. 231	0	17	0
Ditto plated ditto	0	12	6
Caustic Points, moulded ... ... per doz.	0	7	0

General Operation Instruments, &c.

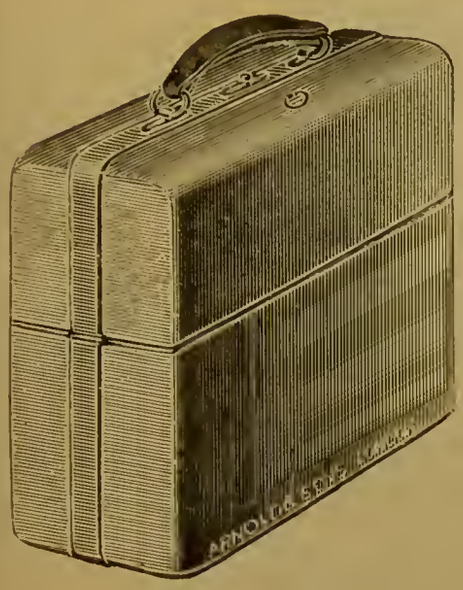


Fig. 232.

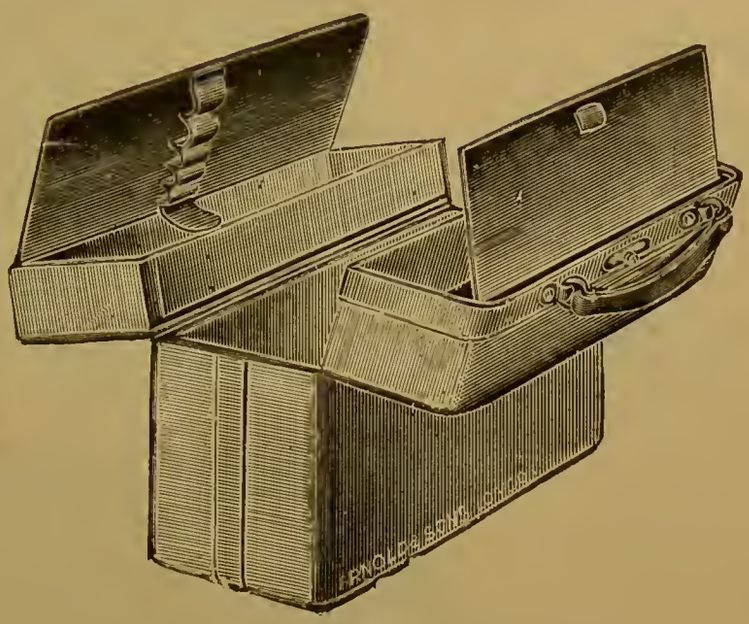


Fig. 233.

	£	s.	d.
Emergency Bag (Godfray's), with patent aseptic lining, Figs. 232 and 233	2	2	0

Vide "THE VETERINARY JOURNAL" and "VETERINARIAN," October, 1898.

Extract from "THE VETERINARY RECORD," October 8th, 1898.

The desire to possess a compact bag capable of holding drugs and instruments suitable for use in those cases to which we are often hurriedly called, has suggested to my mind such an "Emergency Bag" as is here depicted.

The bag, when closed, measures 13-ins. long, 4½-ins. wide, and 10-ins. deep. When open it is divided into a base and two flaps. The base contains loops for four 4oz. bottles and a glass jar, there is also room for tow, bandages, syringe, catheter, &c. On the cover of the flaps are loops for instruments, and the flaps may contain a tin case for horse-balls, another for suture needles and material, a hypodermic case and pellets, &c., according to the practitioner's wish. In fact the bag can be fitted with nearly everything a veterinarian can require on an emergency, besides those things that are of daily utility.

The bag is lined with Messrs. ARNOLD AND SONS' patent enamel lining, and the loops are as suggested by Mr. Gillam in his "Improved Instrument Case," which allows of the thorough cleansing of the interior of the bag.

And finally the "Emergency Bag" is supplied by Messrs. ARNOLD AND SONS at the very moderate price of two guineas.

Fig. 234.

Handbag for Instruments, &c., with pocket and loops for bottles, cowhide, small size, Fig. 234	0	15	0
Ditto ditto morocco, small size	0	17	0
Ditto ditto ditto extra long	1	1	0
Ditto ditto dull cowhide, extra long and deep ...	1	10	0

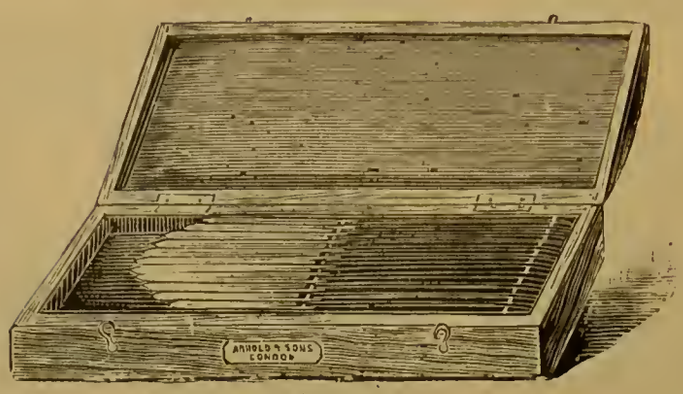


Fig. 235.

	£	s.	d.
Scalpel Case, mahogany, for six scalpels	0	3	0
Ditto ditto ditto twelve scalpels, Fig. 235	0	5	6

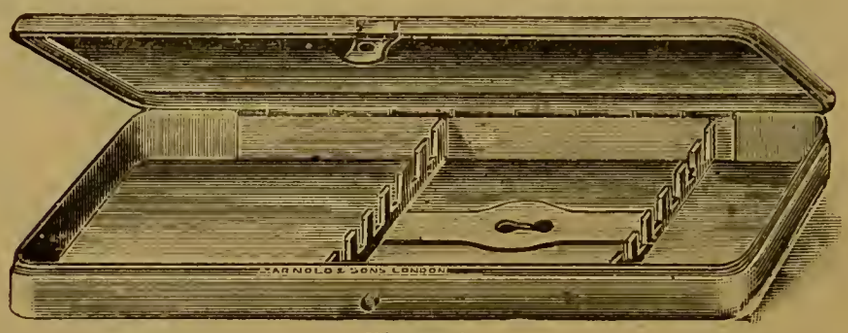


Fig. 236.

Scalpel Case, aseptic, metal plated, for six scalpels, Fig. 236 ...	0	9	0
Ditto ditto ditto for twelve scalpels	0	12	6

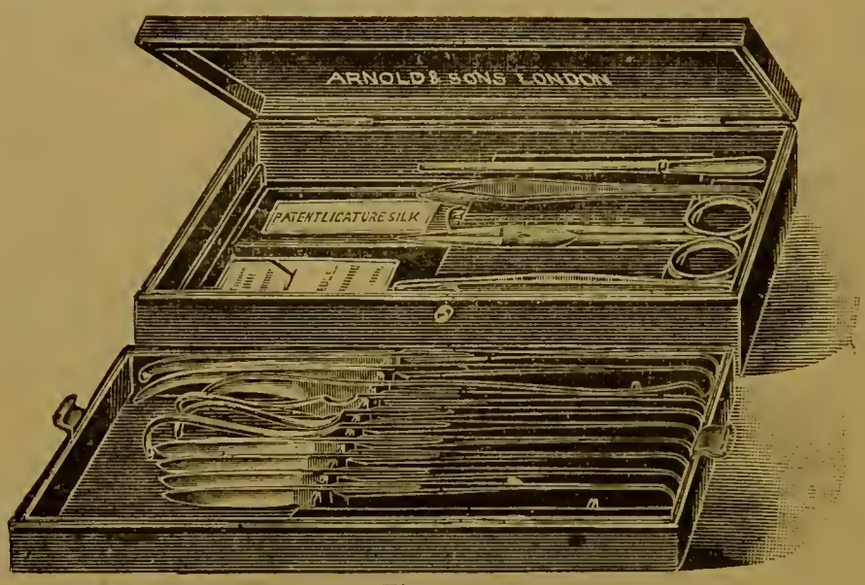


Fig. 237.

Minor Operation Case, leather, lined with velvet, Fig. 237, containing:—

Four Operating Scalpels.
Curved Bistoury, sharp pointed.
Ditto blunt pointed.
Abscess Knife (Symes').
Blunt Hook, single.
Tenaculum.
Aneurism Needle.
Artery Forceps (Liston's).
Operating Spring Forceps.
Straight Scissors.
Six Suture Needles.
Tablet Arnold and Sons' improved Ligature Silk.

The above, complete, in ebony handles	2	2	0
Ditto ditto in aseptic metal handles, nickel-plated ...	2	7	6

Fig. 238.

	£	s.	d.
Amputating Knife (Liston's), single-edged, Fig. 238... ... 6-in.	0	7	0
Ditto ditto ditto ... ... 7-in.	0	8	0
Ditto ditto forged entirely out of solid steel, nickel-plated ... ... 6-in.	0	10	6
Ditto ditto ditto ditto ... ... 7-in.	0	11	6

Fig. 239.

Scalpel, ebony handle, Fig. 239	0	2	0
Ditto, ivory handle	0	2	6
Ditto, aseptic, forged entirely out of solid steel, nickel-plated ...	0	2	6

Fig. 240.

Scalpel, Scale-tang, ebony handle, Fig. 240	0	3	0
Ditto ditto ivory handle	0	3	6

Fig. 241.

Scalpel (Jordan Lloyd's), aseptic metal handle, nickel-plated, with curved or straight dissector, Fig. 241	0	3	6

Fig. 242.

Scalpel (Jordan Lloyd's), aseptic metal handle, nickel plated, with scoop, Fig. 242	0	4	6

Fig. 243.

Bistoury, curved, probe or sharp pointed, ebony handle, Fig. 243 ..	0	3	0
Ditto ditto ditto ditto ivory handle	0	3	6
Ditto ditto ditto ditto aseptic, forged entirely out of solid steel, nickel-plated	0	3	6

Fig. 244.

	£	s.	d.
Bistoury, straight, probe or sharp pointed, ebony handle, Fig. 244...	0	3	0
Ditto ditto ditto ditto ivory handle	0	3	6
Ditto ditto ditto ditto aseptic, forged entirely out of solid steel, nickel-plated	0	3	6

Fig. 245.

Hernia Bistoury, ebony handle, Fig. 245	0	3	6
Ditto ivory handle...	0	4	0
Ditto aseptic, forged entirely out of solid steel, nickel-plated	0	4	0

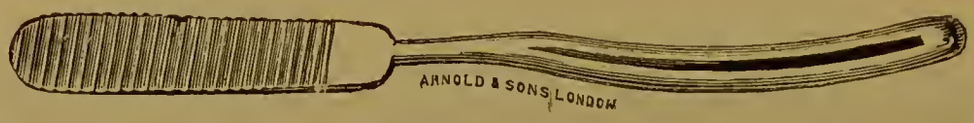


Fig. 246.

Hernia Director (Key's), Fig. 246	0	4	0

Fig. 247.

Abscess Knife (Symes'), ebony handle, Fig. 247	0	3	0
Ditto ditto ivory handle	0	3	6
Ditto ditto aseptic, forged entirely out of solid steel, nickel-plated	0	3	6

Fig. 248.

Tenotomy Knife, sharp or blunt pointed, ebony handle, Fig. 248 ...	0	3	6
Ditto ditto ditto ditto aseptic, forged entirely out of solid steel, nickel-plated	0	4	6

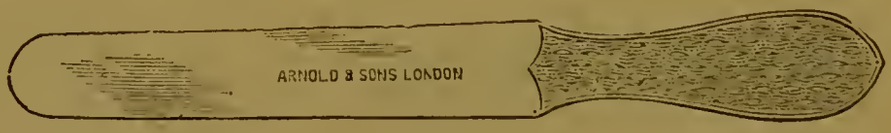


Fig. 249.

Tenotomy Spatula, German silver, Fig. 249	0	1	6
Ditto ditto ditto plated...	0	2	0

Fig. 250.

	£	s.	d.
Aneurism Needle, ebony handle, Fig. 250	0	2	6
Ditto ivory handle	0	3	0
Ditto aseptic, forged entirely out of solid steel, nickel-plated	0	3	0

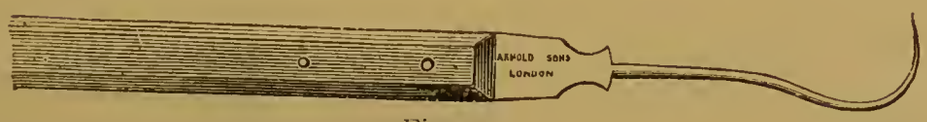


Fig. 251.

Tenaculum, ebony handle, Fig. 251	0	2	6
Ditto ivory handle	0	3	0
Ditto aseptic, forged entirely out of solid steel, nickel-plated	0	3	0

Fig. 252.

umour Hook, blunt or sharp, ebony handle, Fig. 252	0	2	6
Ditto ditto ditto ivory handle...	0	3	0
Ditto ditto ditto aseptic, forged entirely out of solid steel, nickel-plated...	0	3	0

Fig. 253.

umour Hook, double, blunt or sharp, ebony handle, Fig. 253 ...	0	5	0
Ditto ditto ditto ivory handle	0	5	6
Ditto ditto ditto aseptic, forged entirely out of solid steel, nickel-plated	0	5	6

Fig. 254.

mour Needle (Liston's), ebony handle, Fig. 254	0	3	0
Ditto ditto ivory handle	0	3	6
Ditto ditto aseptic, forged entirely out of solid steel, nickel-plated	0	3	6

Fig. 255.

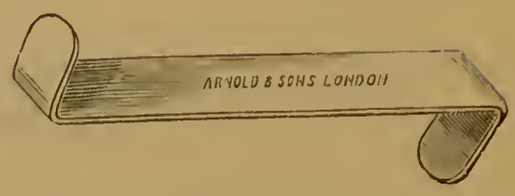


Fig. 256.

	£	s.	d.
Retractor, wire, plated, Fig. 255	0	2	6
Ditto copper, plated, Fig. 256	0	3	0

Fig. 257.

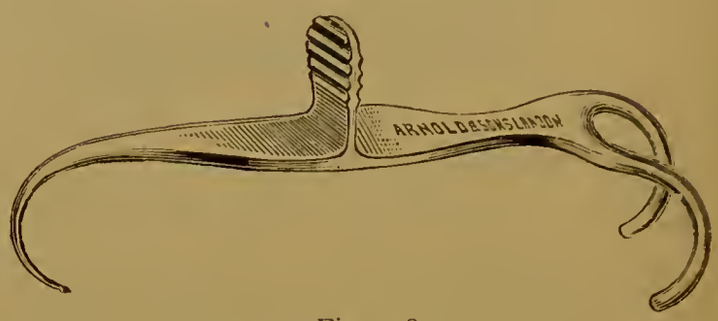


Fig. 258.

Retractors (Jordan Lloyd's), automatic, single sharp hook each end	0	3	6
Ditto ditto ditto double ditto ditto, Fig. 257	0	5	0
Ditto ditto ditto single sharp and double blunt hooks, Fig. 258, three sizes ... ... 7s., 8s., and	0	9	0

Fig. 259.

Retractor, double, scale-tang, ebony handle, extra strong, Fig. 259...	0	7	6

Fig. 260.

Hernia Needle (MacEwen's), curved right or left, with aseptic metal handle, Fig. 260 ... ... each	0	6	0

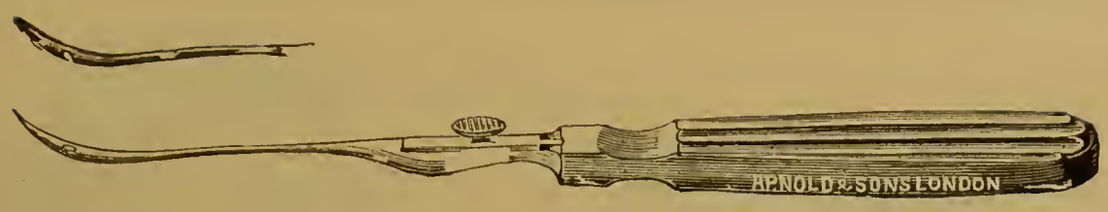


Fig. 261.

	£	s.	d.
Hernia Needle (Reverdin's), with sliding slot eye, various curves, nickel-plated, metal handle, Fig. 261 ... each 12s. 6d. and	0	15	0

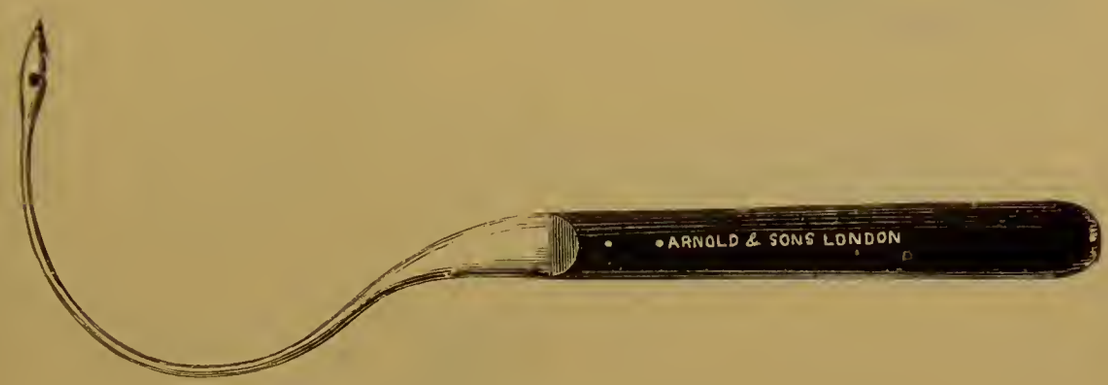


Fig. 262.

Hernia Needle (Wood's), ebony handle, Fig. 262	0	6	0
Ditto ditto aseptic metal handle	0	7	6

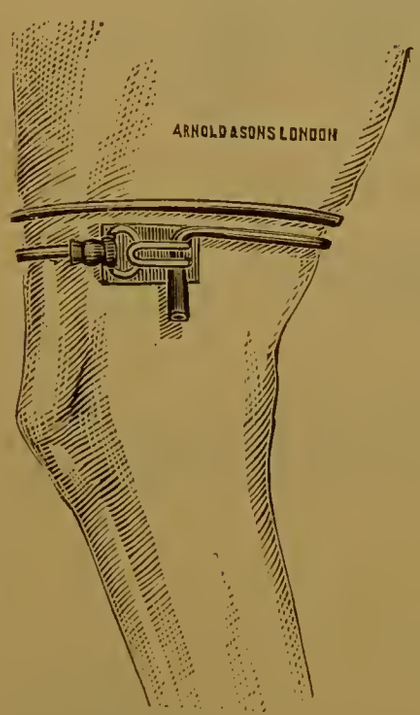


Fig. 263.

Fig. 264.

Tourniquet, "Reliance" (Patented), in box, complete, Fig. 263 ...	0	2	6

The above represents a new form of Tourniquet, which is without doubt the most simple and inexpensive that has been brought before the notice of the profession. It is made in the form of a hook, but tapering towards the end, with an indiarubber ring for attachment. It can be secured or released instantaneously. By simply placing the tubing in the hook, it is held firmly and securely, and by a gentle outward pull it can be immediately released.

Tourniquet, as made for the Royal Veterinary College, Fig. 264 ...	0	4	6

Fig. 265.

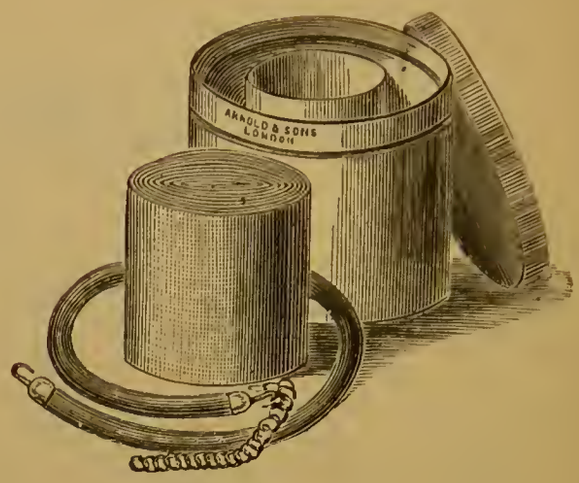


Fig. 266.

	£	s.	d.
Tourniquet (Esmarch's), with chain and hooks, nickel-plated, latest pattern, Fig. 265	0	7	0
Ditto ditto with $3\frac{1}{2}$ yards solid rubber bandage, in japanned tin case, complete, Fig. 266	1	0	0
Ditto ditto without case	0	16	6

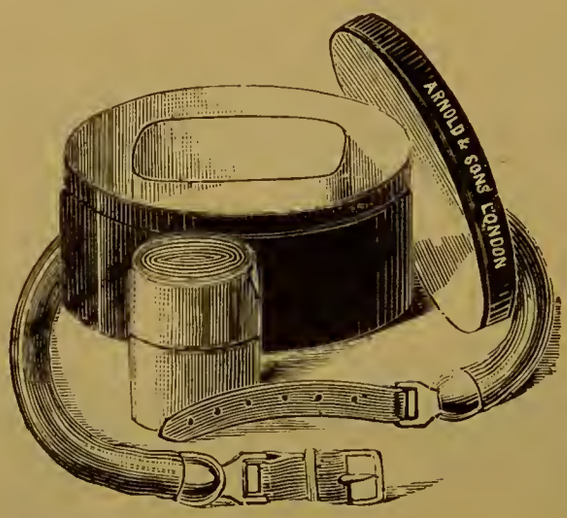


Fig. 2 7.

Tourniquet, with solid rubber bandage (Major Smith's), for neurectomy, in japanned tin case, complete, Fig. 267	0	17	6

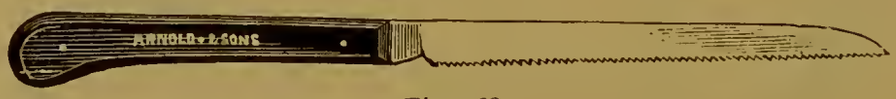


Fig. 268.

Saw, scale-tang, ebony handle, Fig. 268	0	4	0
Ditto aseptic metal handle	0	6	0

Fig. 269.

Saw (Wood's), with movable back, ebony handle, Fig. 269, 7s. 6d. and	0	10	6
Ditto ditto ditto aseptic metal handle 10s. 6d. and	0	12	6

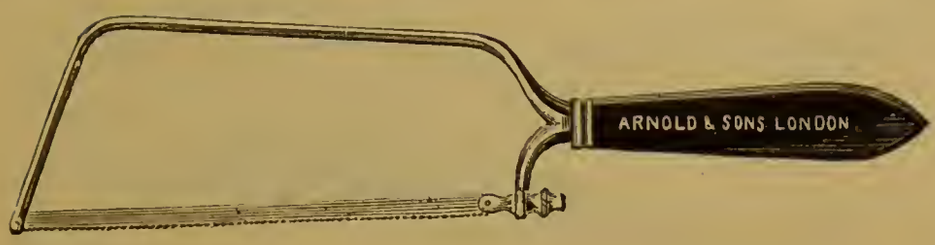


Fig. 270.

	£	s.	d.
Saw, with spare blade, ebony handle, Fig. 270	0	8	0
Ditto ditto aseptic metal handle	0	10	6

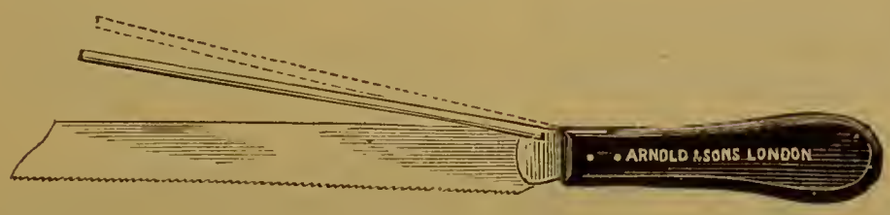


Fig. 271.

Saw, with movable back, ebony handle, Fig. 271	0	9	0
Ditto ditto aseptic metal handle	0	12	0

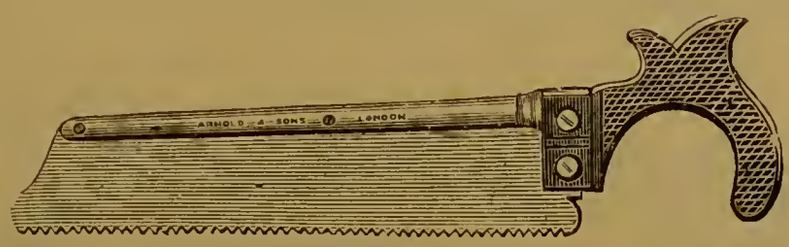


Fig. 272.

Saw, with solid shoulder, ebony handle, Fig. 272	0	15	0
Ditto ditto aseptic metal handle	0	19	0

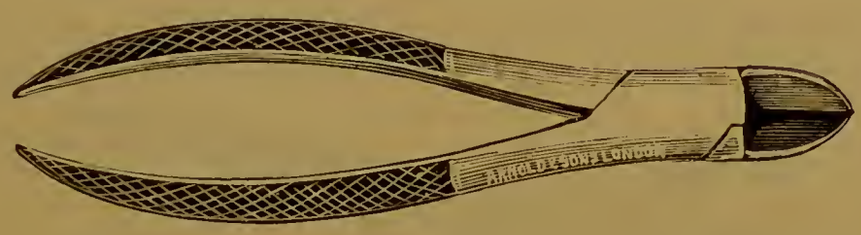


Fig. 273.

Bone Forceps, with plain joint, Fig. 273 ... ... 6 in.	0	5	0

Fig. 274.

Bone Forceps, with circular joint, Fig. 274 ... ... 6 in.	0	7	6
Ditto ditto ... ... 7 in.	0	9	0
Ditto ditto ... ... 8 in.	0	10	6
Ditto ditto ... ... 9 in.	0	12	6
Ditto ditto ... ... 10 in.	0	14	0
Ditto ditto ... ... 11 in.	0	15	6

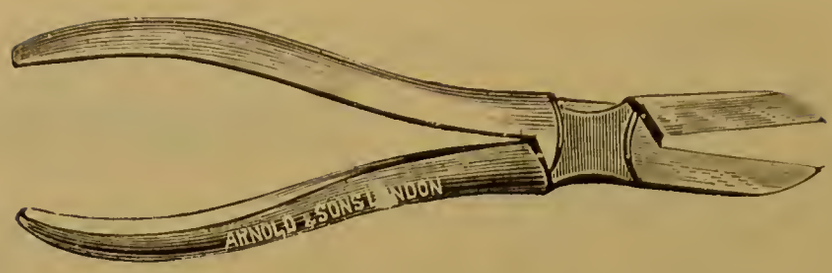


Fig. 275.

	£	s.	d.
Bone Forceps, aseptic, with take off joints, nickel-plated, Fig. 275 6 in.	0	8	0
Ditto ditto ditto ditto ditto ... 7 in.	0	9	6
Ditto ditto ditto ditto ditto ... 8 in.	0	11	0
Ditto ditto ditto ditto ditto ... 9 in.	0	13	0

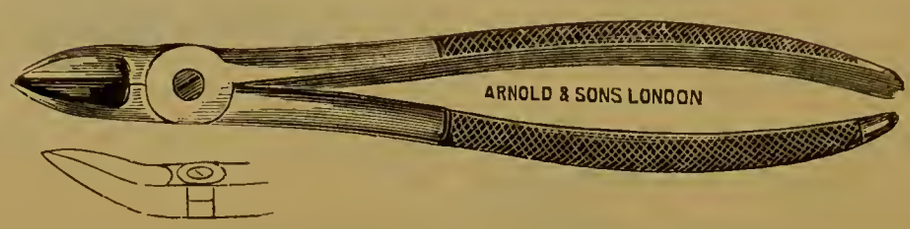


Fig. 276.

Bone Forceps, curved or flat, Fig. 276 ... 8s. 6d., 10s., and	0	12	6

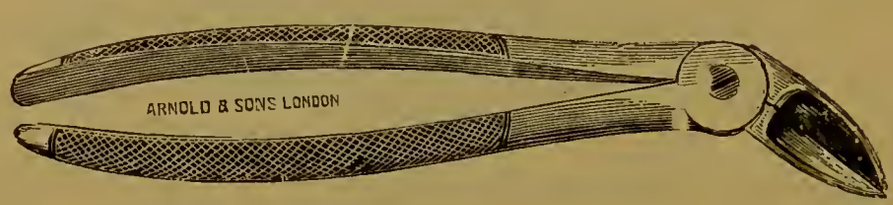


Fig. 277.

Bone Forceps, angular, right or left, Fig. 277, each 10s. 6d., 12s. 6d. and	0	15	0

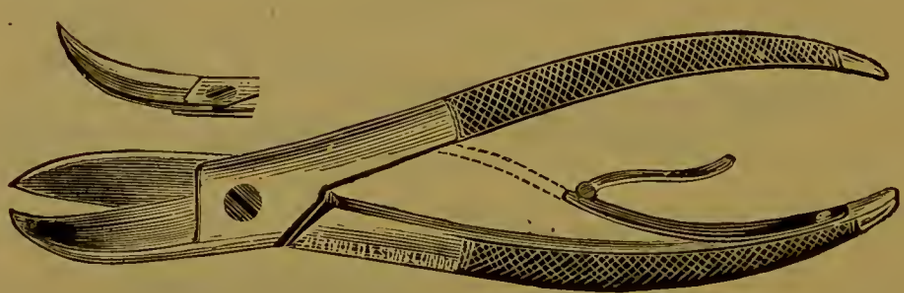


Fig. 278.

Bone-cutting Scissors, with folding spring, Fig. 278...	0	12	6

Fig. 279.

Necrosis Forceps, straight, Fig. 279 ... ... 5s. 6d. and	0	7	6

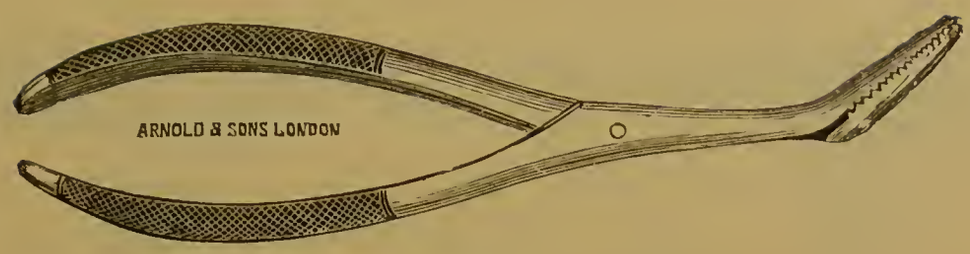


Fig. 280.

	£	s.	d.
Necrosis Forceps, curved, Fig. 280 ... ... 5s. 6d. and	0	7	6

Fig. 281.

Bone Scoop, steel handle, Fig. 281	0	6	6

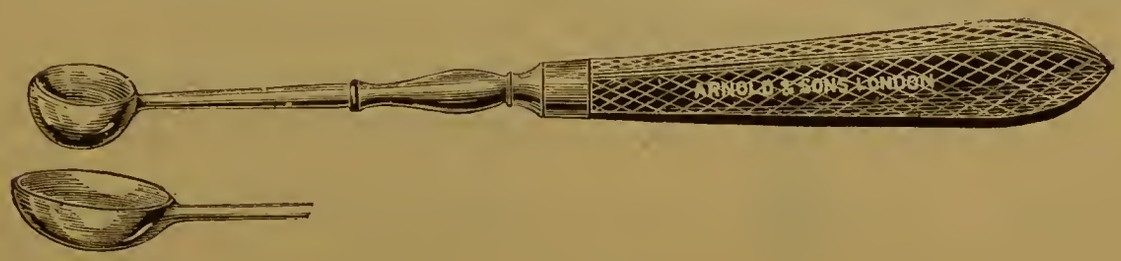


Fig. 282.

Bone Scoop, oval or round, assorted sizes, ebony handles, Fig. 282 each	0	6	6
Ditto ditto ditto aseptic metal handles ditto	0	7	6

Fig. 283.

Curette, with fenestrated handle, nickel-plated, Fig. 283	0	7	6

Fig. 284.

Curette, double, nickel plated, Fig. 284	0	8	6

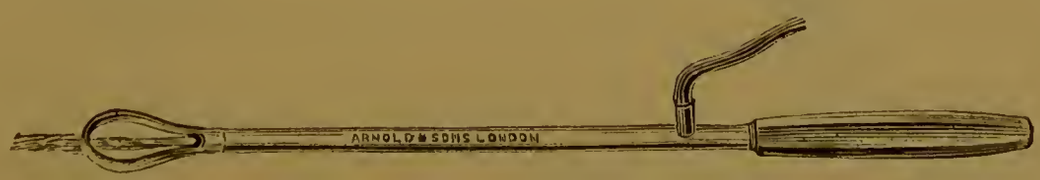


Fig. 285.

Curette, Flushing (Duke's), nickel-plated, Fig. 285	0	12	6

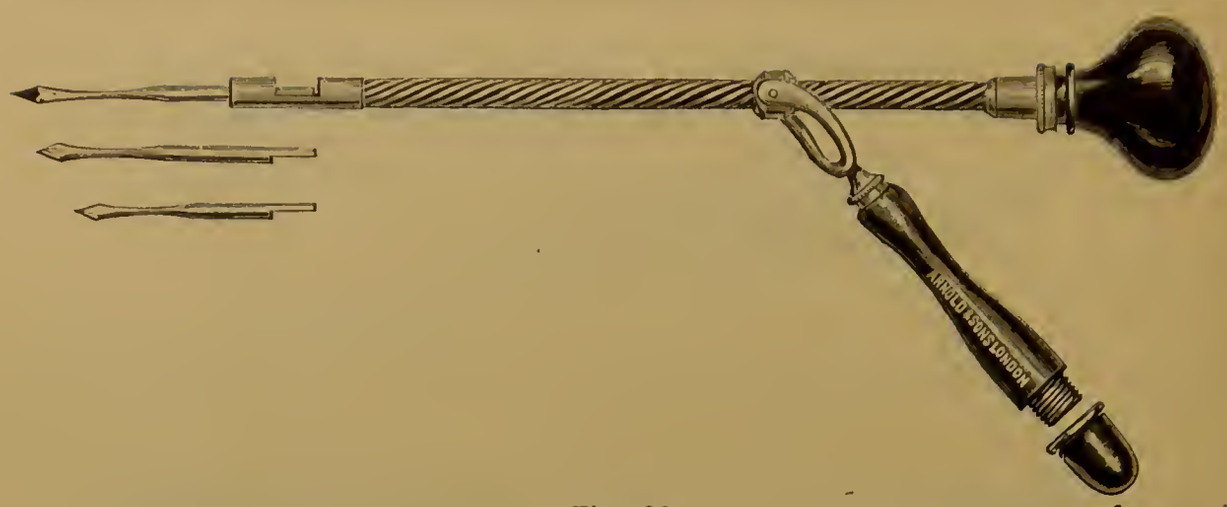


Fig. 286.

	£	s.	d.
Drill Stock, with archimedean screw action, fitted with three drills, Fig. 286	0	15	0

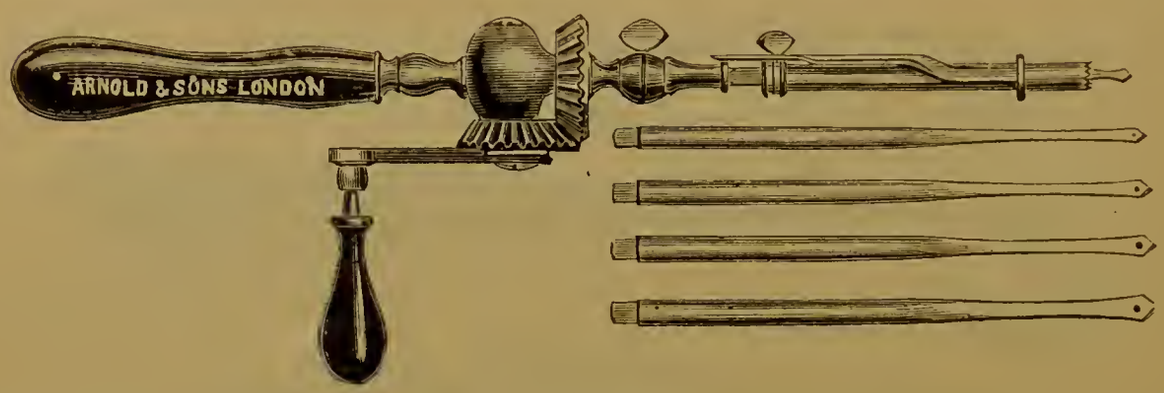


Fig. 287.

Drill Stock, with multiplying action and two small trephines, in leather case complete, Fig. 287	2	7	6

Fig. 288.

Fig. 289.

Trephine, ebony handle, three sizes, Fig. 288 ... ... each	0	8	0
Ditto aseptic metal handle, ditto ... ... ditto	0	10	6
Ditto with Arnold & Sons' improved screw ebony handle, three sizes, Fig. 289 ... ... each	0	9	0

Fig. 290.

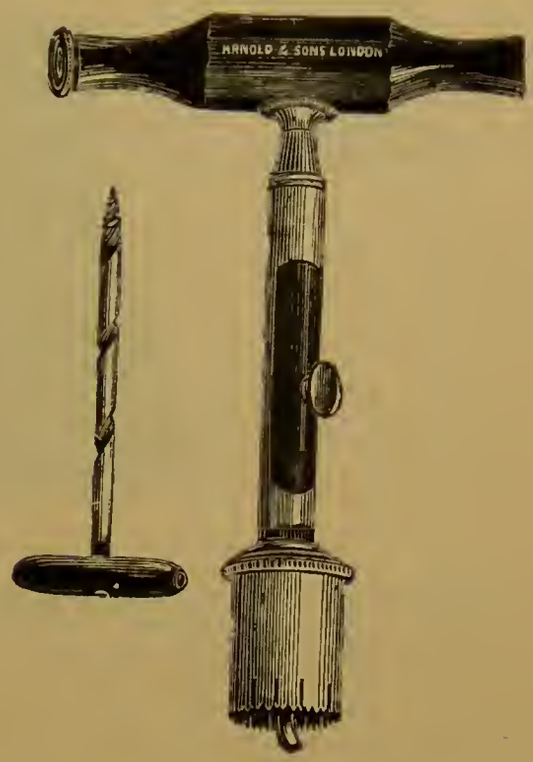


Fig. 291.

	£	s.	d.
Trephine, with conical blade, ebony handle, three sizes, Fig. 290 ... ... each	0	12	0
Ditto and Gimlet (Mannington's), Fig. 291	0	12	6

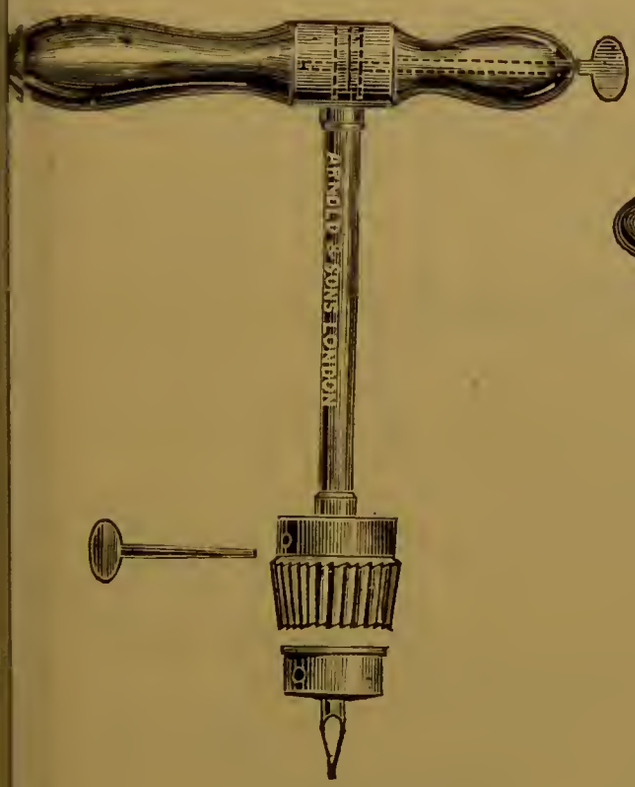


Fig. 292.

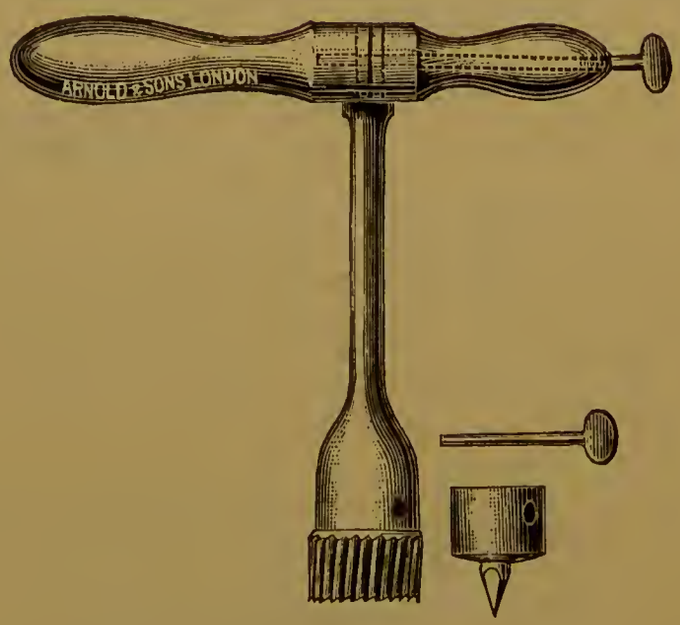


Fig. 293.

Trephine, aseptic, with metal handle, and movable centre piece, four sizes, Fig. 292 ... ... each	0	15	0
Ditto ditto (Lockwood's), improved, with domed tops, four sizes, Fig. 293 ... ... each	0	15	0
Ditto ditto set of three, in polished mahogany case	2	10	0
Trephine Brush	0	1	0

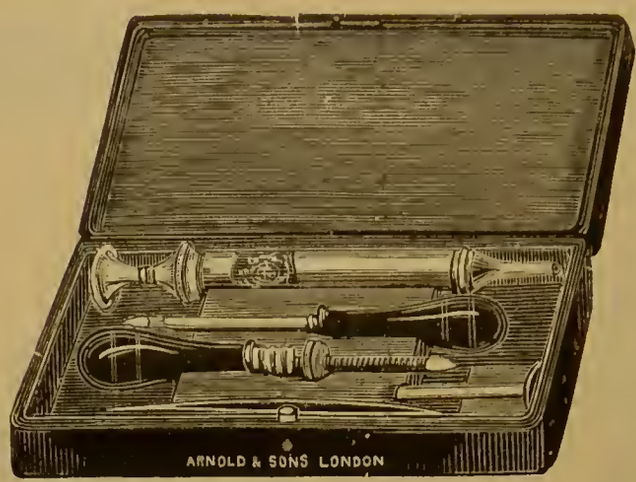


Fig. 294.

	£	s.	d.
Sturdy Instruments, for sheep, consisting of trephining trocar, trocar and cannula, spring forceps, and brass syringe, in leather case, complete, Fig. 294	0	15	0

Fig. 295.

Bullet Forceps (Arnold & Sons' improved), with take-apart blades, Fig. 295	0	8	6

Fig. 296.

Bullet Forceps (Pollock's), with rack, Fig. 296	0	8	6

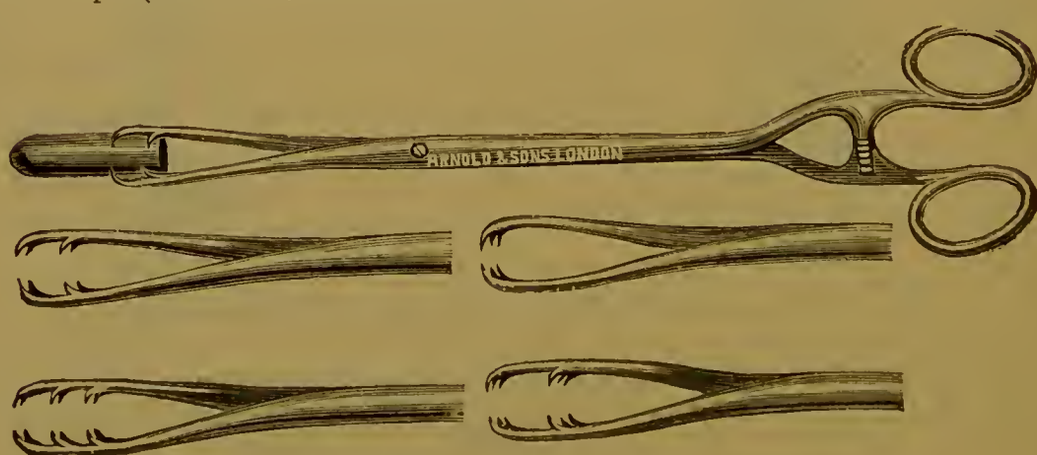


Fig. 297.

Bullet Forceps (Macnamara's), Patented, Fig. 297	0	10	6

Fig. 298.

	£	s.	d.
Bullet Forceps (Professor Stevenson's), Patented, Fig. 298	0	10	6

Extract from "THE BRITISH MEDICAL JOURNAL."

The qualities to be aimed at in constructing a bullet extractor are: (1) That it shall be capable of being passed into a bullet track without causing unnecessary distension, and without injury to the tissues through which it passes; (2) that it should take a sufficiently firm hold of the bullet to enable the surgeon to apply the amount of force which is justifiable in the operation of extraction; (3) that when attempts at seizing the bullet fail, the soft parts at the end of the track cannot be lacerated by the jaws of the instrument; and (4) that the handles need not be greatly separated in order to open the jaws sufficiently to grasp the bullet. When closed the point of this forcep is smooth, and it is certainly smaller in diameter than any wound or track likely to be made by a modern bullet. The forcep is made by Messrs. ARNOLD AND SONS, of West Smithfield, to the design and at the suggestion of Brigade-Surgeon-Lieutenant-Colonel W. F. Stevenson, Professor of Military Surgery, Army Medical School, Netley.

Fig. 299.

Bullet Forceps, as made for the War Office, Fig. 299	0	17	6

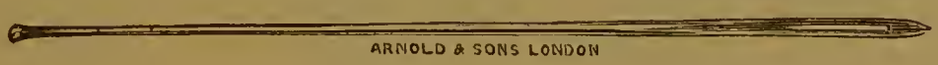


Fig. 300.

Bullet Probe, plated, Fig. 300	0	3	0
Ditto silver	0	4	6
Ditto flexible metal	0	2	0

Fig. 301.

Gun-Shot Probe, plated, with porcelain bulb, Fig. 301, 11-in ...	0	4	6

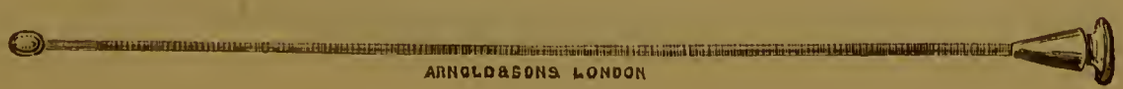


Fig. 302.

Gun-Shot Probe, spiral wire, with porcelain bulb, Fig. 302... ...	0	4	6

Fig. 303.

	£	s.	d.
Vulsellum Forceps, straight, Fig. 303	0	6	0
Ditto ditto aseptic, with take off joint	0	6	6

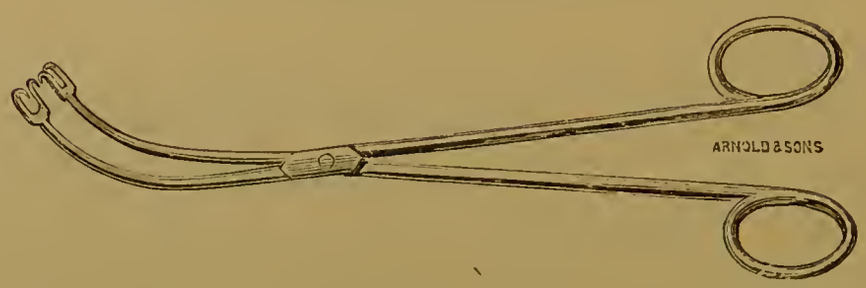


Fig. 304.

Vulsellum Forceps, curved, Fig. 304	0	7	0
Ditto ditto aseptic, with take off joint	0	7	6

Fig. 305.

Vulsellum Forceps, straight or curved (Arnold & Sons'), improved, with rack, Fig. 305	0	10	6
Ditto ditto aseptic, with take off joint	0	11	0

Fig. 306.

Spring Forceps, serrated, Fig. 306	0	5	0

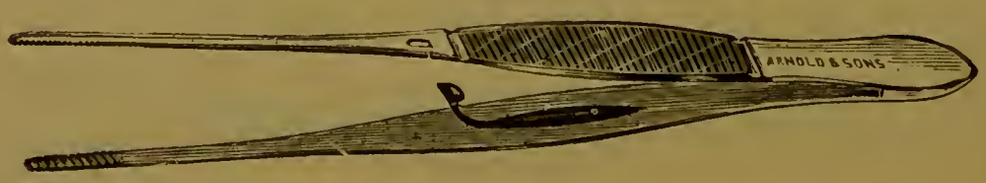


Fig. 307.

Spring Forceps, serrated, with catch, Fig. 307	0	6	0

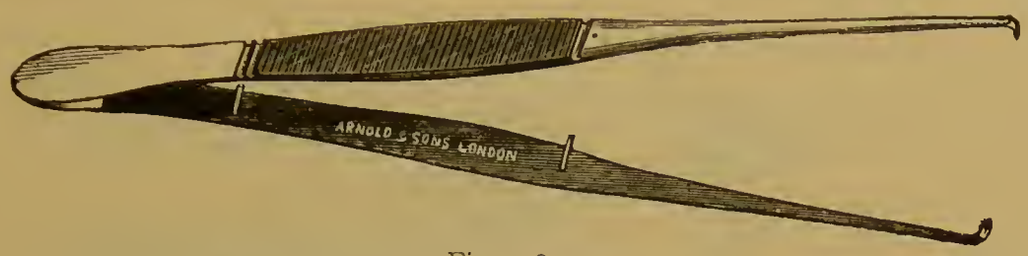


Fig. 308.

	£	s.	d.
›ring Forceps, with tenaculum points, Fig. 308	0	5	0

Fig. 309.

›ring Forceps, with catch and tenaculum points, Fig. 309 ...	0	6	0

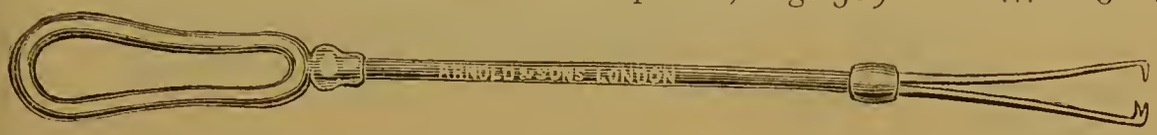


Fig. 310.

onge Holder, nickel-plated, with two prongs, Fig. 310	0	2	0
Ditto ditto with three prongs	0	2	6

Suture Needles, Holders, Wire, Silk, &c.

ARNOLD & SONS LONDON

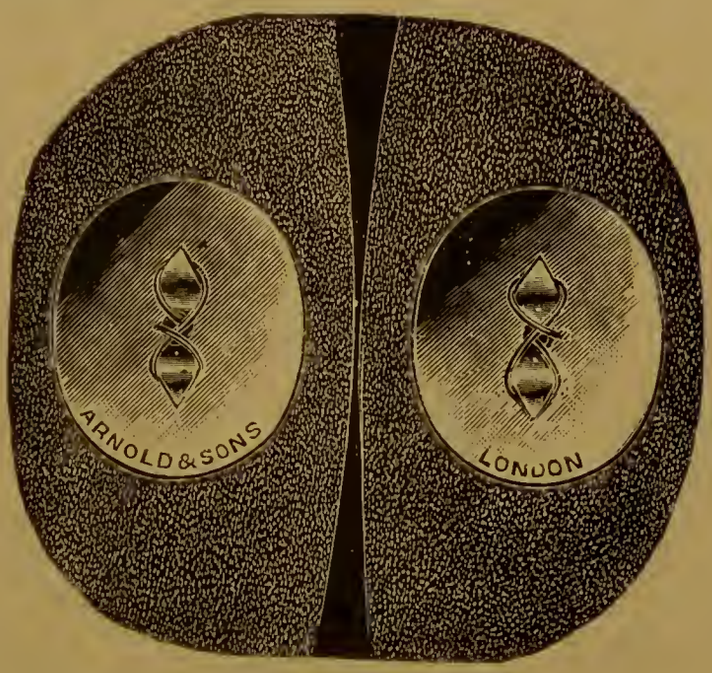


Fig. 311.

›ire Buttons (Pugh's), aluminium, oval or round, assorted sizes, Fig. 311 ... ... per doz.	0	1	6

Extract from "VETERINARY RECORD," April 29th, 1899.

The accompanying diagram is of a Suture Button, which Messrs. ARNOLD & SONS have for me, and which I consider of great service in all wound cases where it is necessary to stitch. Being made of aluminium, the button is extremely light. It is oval or round in circumference, a hole in the centre for the suture wire or cord, and on each side of the hole are two clips, which the suture material is twisted in the figure of eight. The advantages claimed for nvention are its simplicity and lightness; it prevents cutting or tearing of the edges of the d, reduces the chances of disfigurement to a minimum, and lastly, is easily rendered aseptic. ›uttons are made in assorted sizes, both oval and round.

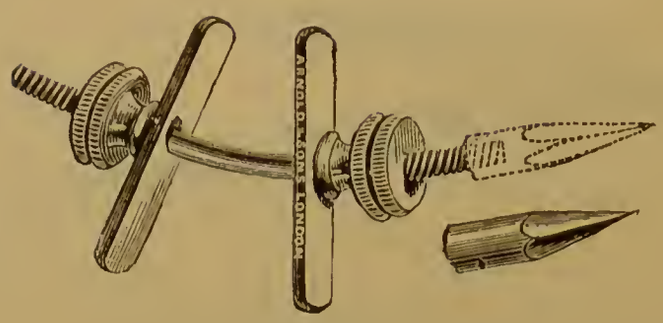


Fig. 312.

	£	s.	d.
Suture Instruments (Russell's), consisting of four pairs screw sutures, various lengths, two trocar points, four screw nuts, and six assorted plates, in leather case, complete, Fig. 312	1	10	0

Fig. 313.

Suture Needle and Holder combined, three sizes, nickel-plated, Fig. 313 ... ... each	0	1	6

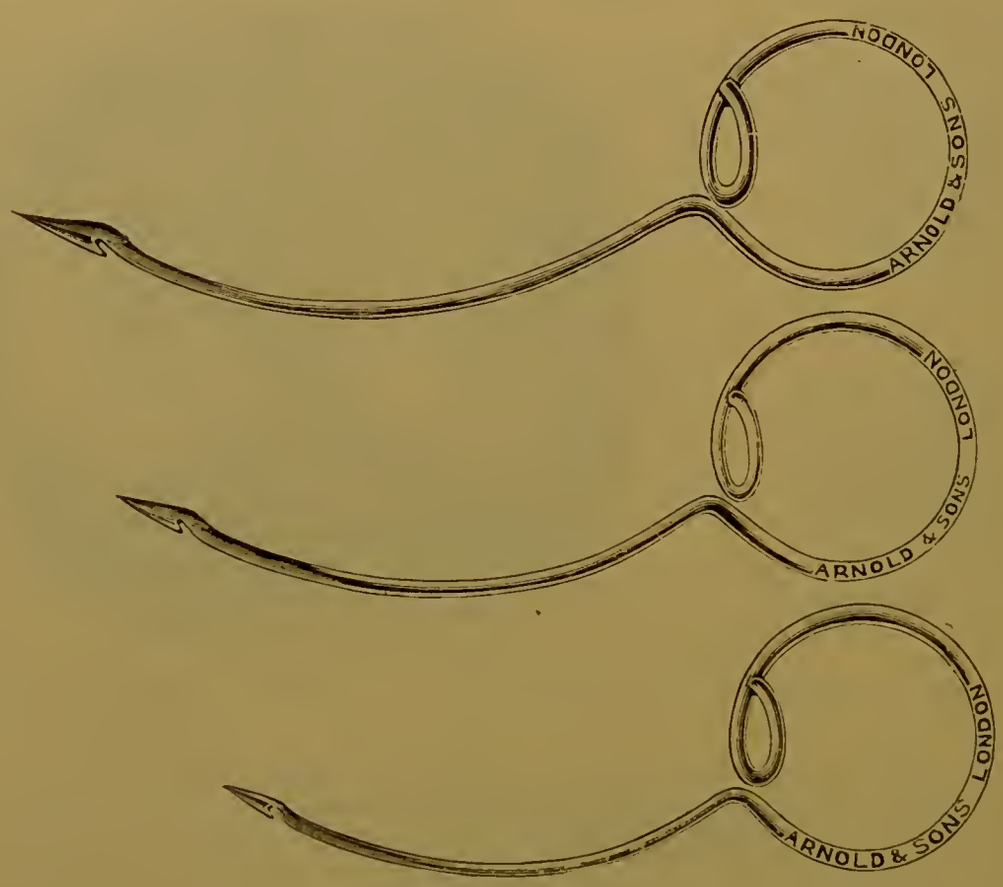


Fig. 314.

Suture Needle and Holder combined, improved, with thumb rest, three sizes, nickel-plated, Fig. 314 ... ... each	0	2	0

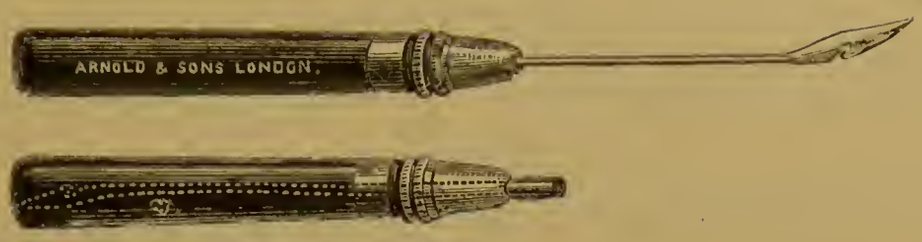


Fig. 315.

		£	s.	d.
uture Needle and Holder (Fleming's), four sizes, Fig. 315	each	0	3	6

Fig. 316.

ıture Needle and Holder (Major Smith's), with five assorted needles, fitting into screw ebony handle, complete, Fig. 316 ...	0	15	0

Fig. 317.

ıture Needle, with eye at point, ebony handle, Fig. 317	0	3	0

Fig. 318.

ure Needles, half curved, assorted sizes, Fig. 318, per packet of six, 1s. and	0	1	3
Ditto ditto large, $2\frac{1}{2}$ in. to 4 in., per packet of six	0	1	6
Ditto ditto extra large, 3 in. to 5 in. ... ditto	0	1	9
Ditto ditto (Prof. Pritchard's), with flat points, per packet of six	0	1	9

Fig. 319.

	£	s.	d.
Suture Needles, French pattern, assorted sizes, Fig. 319, per packet of six	0	1	6

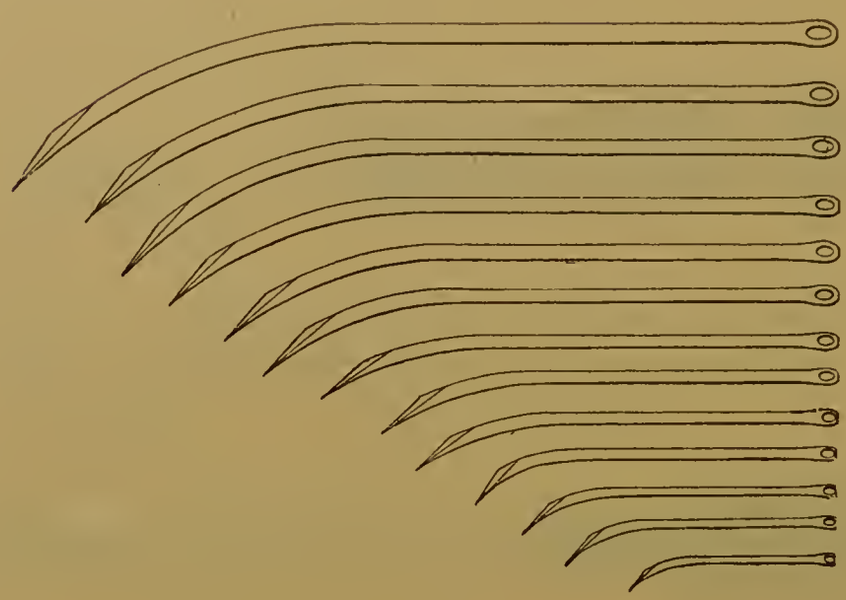


Fig. 320.

Suture Needles (Hagedorn's), half curved, assorted sizes, Fig. 320, per packet of six, 1s. and	0	1	3

Fig. 321.

Fig. 322.

Suture Needles, full curved, assorted sizes, Fig. 321, per packet of six, 1s. and	0	1	3
Ditto ditto (Drewe's), Fig. 322 ... per packet of six	0	2	0
Ditto ditto (Bowhill's) full curved on flat, with spring eyes ... ... per packet of six	0	2	0

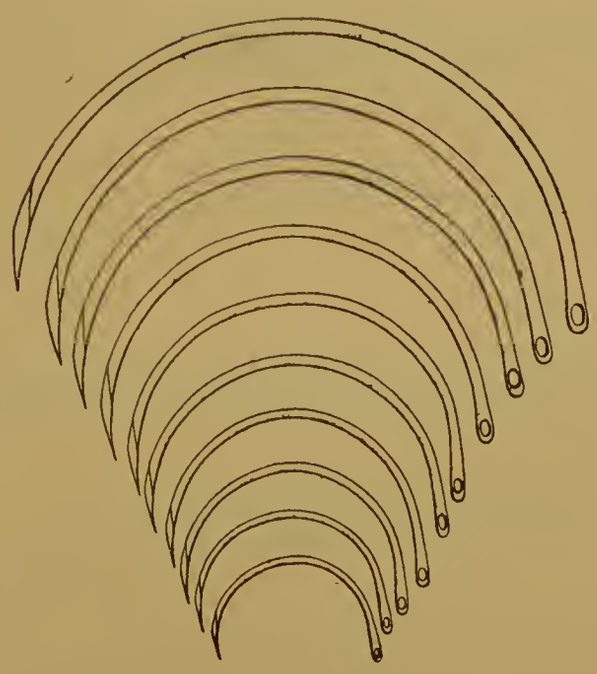


Fig. 323.

			£	s.	d.
ture Needles (Hagedorn's),		$\frac{1}{2}$ circle, assorted sizes, Fig. 323, per packet of six, 1s. and	0	1	3
Ditto	ditto	$\frac{1}{4}$ circle ... per packet of six	0	1	3
Ditto	ditto	$\frac{3}{8}$ circle ... ditto	0	1	3

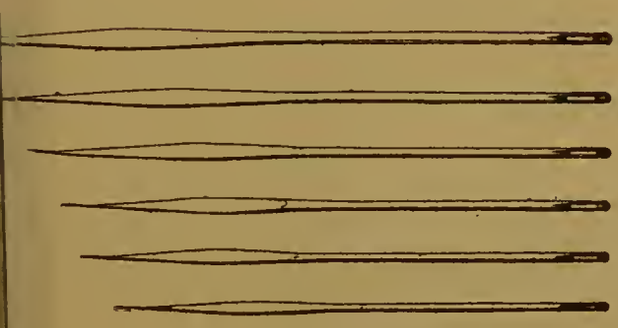


Fig. 324.

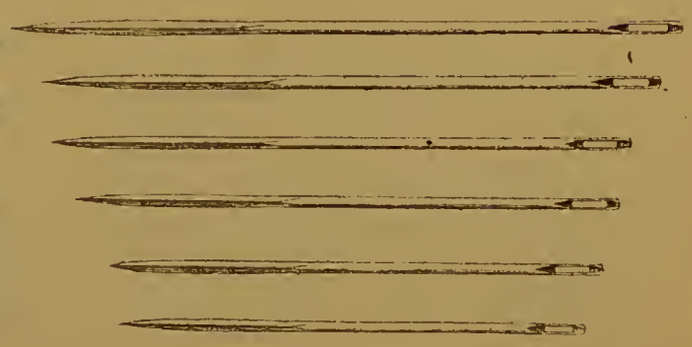


Fig. 325.

ure Needles, straight,		lance pointed, assorted sizes, Fig. 324, per packet of six, 1s. and	0	1	3
Ditto	ditto	triangular pointed, assorted sizes, Fig. 325, per packet of six, 1s. and	0	1	3

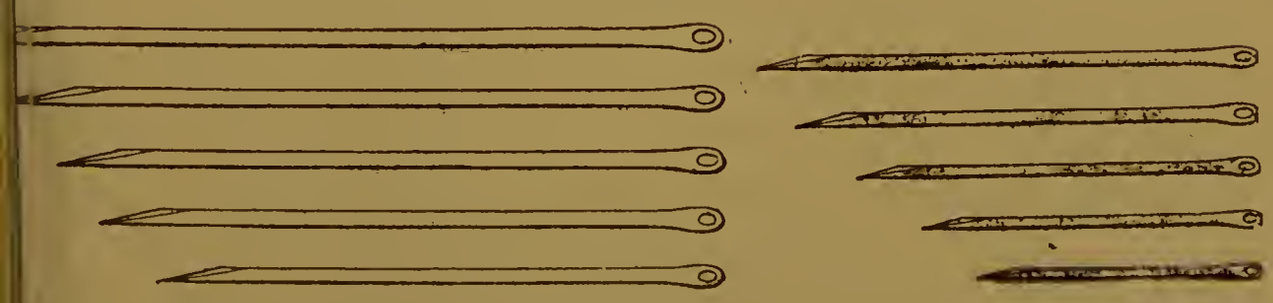


Fig. 326.

ure Needles (Hagedorn's), straight,		assorted sizes, Fig. 326, per packet of six, 1s. and	0	1	3

Fig. 327.

		£	s.	d.
Suture Needle, grooved, for fine metallic wire, Fig. 327	6d. and	0	0	9

Fig. 328.

Suture Needle, with screw spring eye, for stout metallic wire, Fig. 328	0	1	3

Fig. 329.

Suture Needle (Reek's), for metallic wire, assorted sizes, Fig. 329, each	0	1	3

Extract from "THE VETERINARIAN."

The above illustration shows a new form of Suture Needle. It was made for me by Messrs. ARNOLD AND SONS, twelve months ago, and I have used it since with every satisfaction. It will be seen from the illustration—

(1) That it offers no rough edges when threaded on any part of its surface, so that it travels through the skin quite easily.

(2) That it is comparatively easy to thread, and affords no chance of the suturing material breaking off and becoming fixed in the shaft of the needle.

(3) And that it entirely does away with the necessity for having a needle to fit *exactly* the suturing material used, as the needle will take material of varying thicknesses.

The needles may be obtained of different sizes from Messrs. ARNOLD AND SONS.

Fig. 330.

Suture Pins, with solid glass heads, assorted sizes, Fig. 330, per packet of six	0	0	9

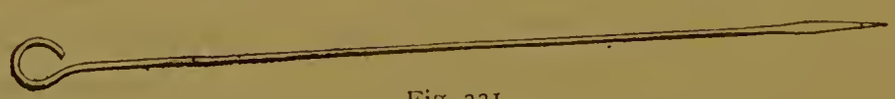


Fig. 331.

Suture Pins, with steel ring heads, assorted sizes, Fig. 331, per packet of six	0	1	0
Blood Pins ... ... per hundred	0	1	0

Fig. 332.

		£	s.	d.
Spaying Needles	per doz.	0	0	9
Ditto extra large, Fig. 332...	ditto	0	1	0
Ditto grooved	ditto	0	2	0

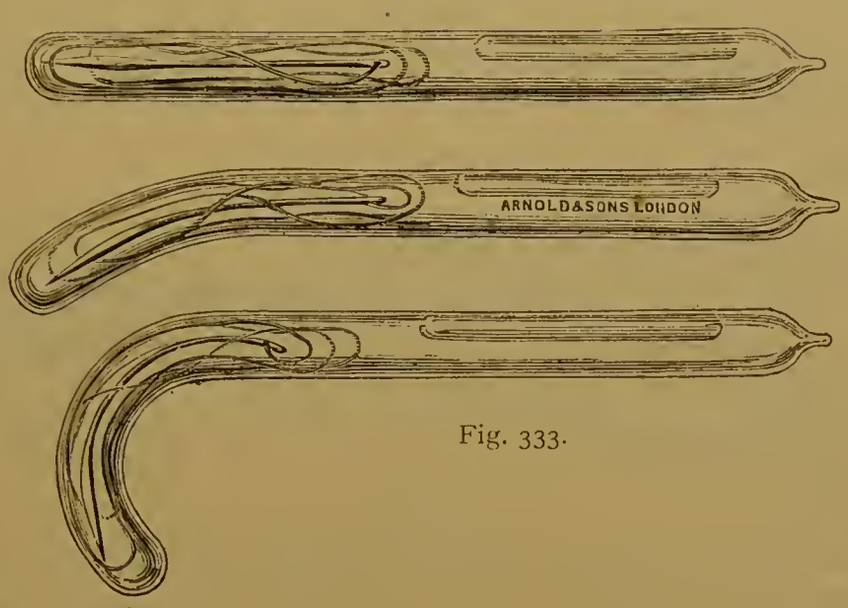


Fig. 333.

Emergency Package, Aseptic, fitted with curved, half-curved, or straight needle, threaded with catgut, silk, or silkworm gut, in alcohol, Fig. 333	each	0	0	6

Extract from "THE BRITISH MEDICAL JOURNAL."

The Emergency Package consists of a sealed glass tube containing a suture needle threaded for immediate use. As the accompanying illustration shows, the tube is in different shapes, according to the shape of the needle. The tube, which can easily be carried in the waistcoat pocket, will doubtless be found very convenient in practice.

Fig. 334.

Suture Wire, silver, Fig. 334	per hank	0	1	6
Ditto ditto	per reel	0	2	6
Ditto plated	per hank	0	0	6
Ditto metallic, fine, for plain-eyed needles ...	ditto	0	0	9
Ditto ditto stout, for screw-eyed needles ...	ditto	0	0	6
Suture Case, containing two screw and two plain eyed suture needles, six assorted needles, two hanks each stout and fine metallic wire, one hank silver-plated wire, silk, and thread, in leather case, complete		0	14	0

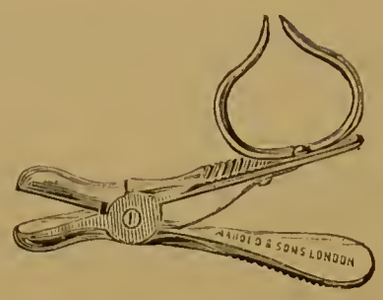


Fig. 335.

	£	s.	d.
Needle-holding Forceps, improved, with finger ring, Fig. 335 ...	0	5	0

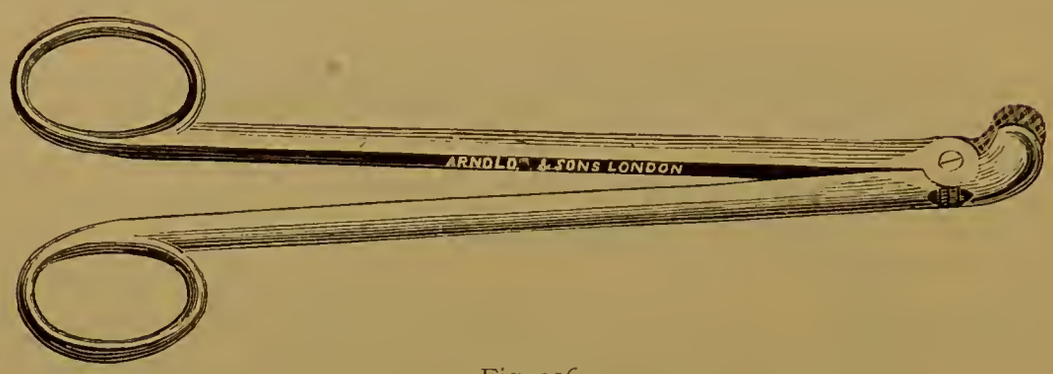


Fig. 336.

Needle-holding Forceps (Spencer Wells'), nickel-plated, Fig. 336 ...	0	6	0
Ditto ditto ditto ditto with catch	0	6	6

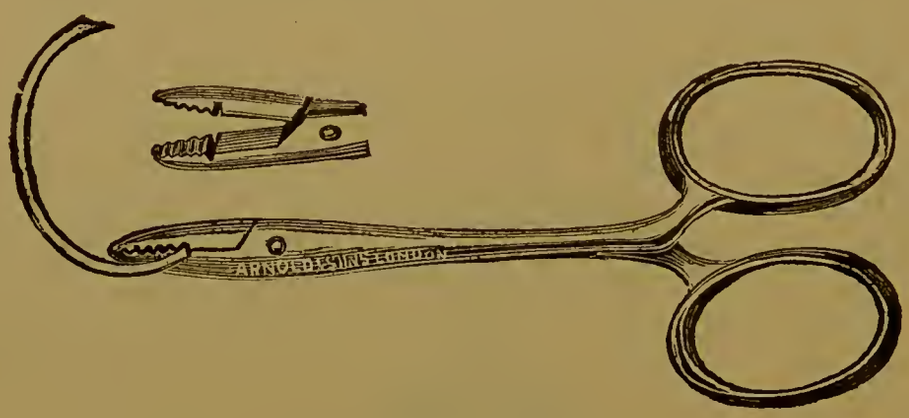


Fig. 337.

Needle-holding Forceps (Bruce Clarke's), nickel-plated, for Hagedorn's or ordinary needles, Fig. 337	0	6	
Ditto ditto ditto aseptic, with take off joints ...	0	6	6

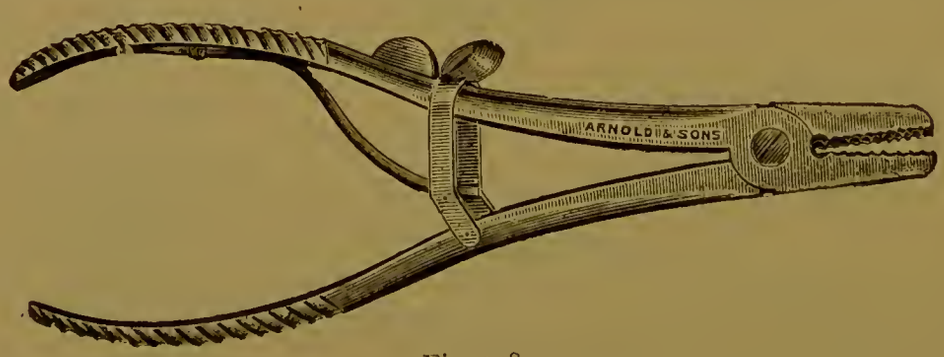


Fig. 338.

Needle Holder, with automatic catch, nickel-plated, Fig. 338 ...	0	10	6

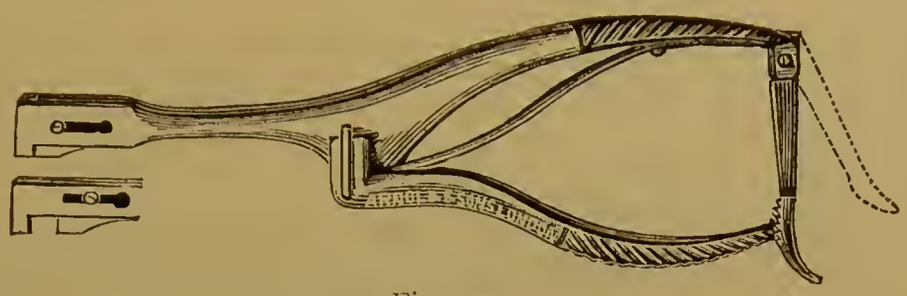


Fig. 339.

	£	s.	d.
Needle Holder (Hagedorn's), nickel-plated, three sizes, Fig. 339, 15s., 18s. and	1	1	0

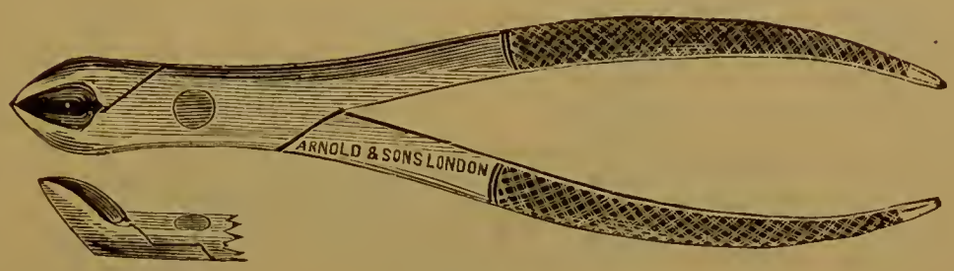


Fig. 340.

Pin cutting Forceps, Fig. 340	0	8	6

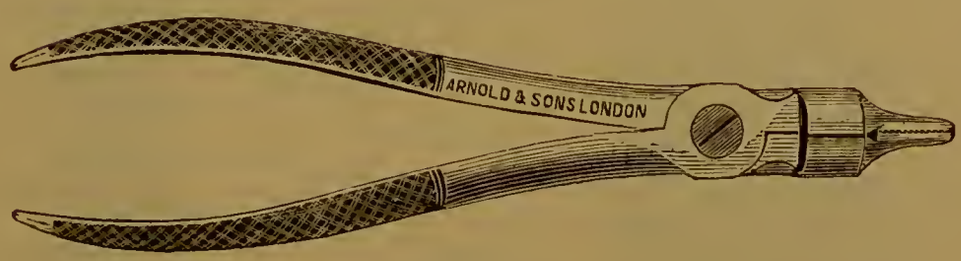


Fig. 341.

Pin-cutting Forceps, and Needle Holder combined, Fig. 341 ...	0	8	6

Fig. 342.

Suture or Ligature Silk (Arnold & Sons' improved), four sizes on tablet, Fig. 342	0	1	3
Ditto ditto ditto ... ... per hank	0	1	0

ARNOLD & SONS' IMPROVED SILK possesses the following advantages: Pure silk, free from all dressing or colouring matter, and will not kink or curl under any circumstances; immense strength; being plaited, will tie securely without untwisting.

		£	s.	d.
Suture or Ligature Silk, ordinary	per reel	0	0	9
Ditto ditto ditto	per hank	0	0	6
Ditto ditto carbolized	per reel	0	1	0
Ditto ditto Thread (Fergusson's)	per hank	0	0	3
Ditto ditto ditto	per reel	0	0	6
Ditto ditto Catgut, carbolized	per bottle	0	1	0
Ditto ditto ditto, sulpho-chromic, dry ...	per hank	0	0	4
Ditto ditto Horsehair	ditto	0	0	6
Ditto ditto Silkworm-gut, pink or white ...	12 lengths	0	0	6
Ditto ditto Kangaroo Tendons	... each	0	1	3
Ditto ditto ditto carbolized, in bottle...	3 lengths	0	3	6
Ditto Tape, iodoform and eucalyptus	per box	0	1	0
Ditto Cord, eucalyptus	ditto	0	1	0
Chinese Twist	per hank	0	0	9

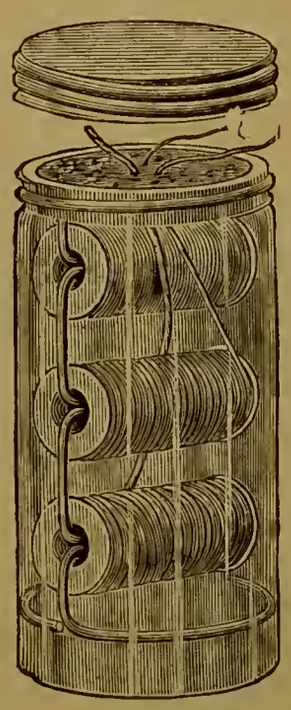


Fig. 343.

Fig. 344.

Catgut, sterilized, in alcohol, three sizes, on glass spools, in screw-cap bottle, Fig. 343	0	2	6
Ditto ditto extra large size	0	6	6
Silk, sterilized, in alcohol, three sizes, on glass spools, in screw-cap bottle	0	2	6
Ditto ditto extra large size	0	6	6
Drainage Tubes, india-rubber, carbolized, assorted sizes, in screw-cap bottle, Fig. 344	0	2	0

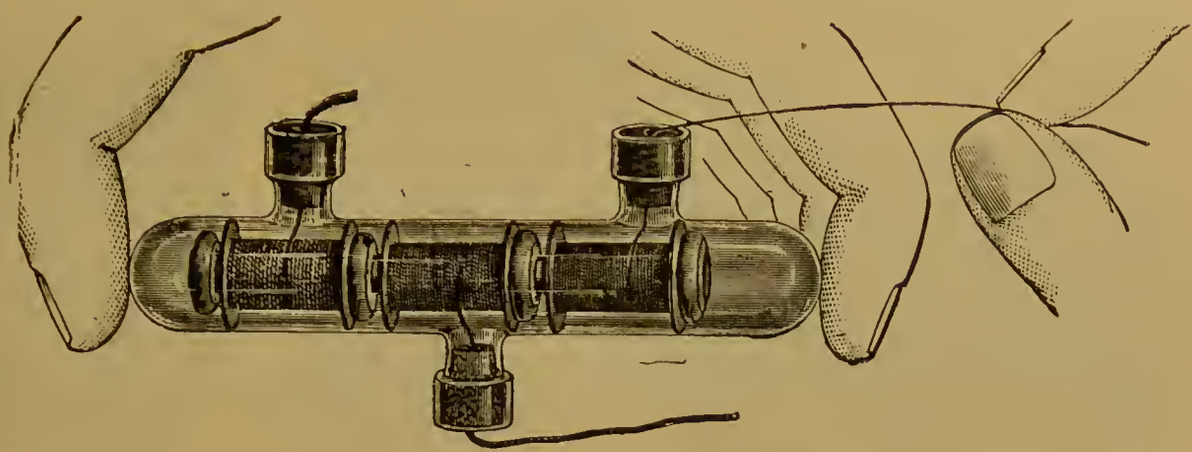


Fig. 345.

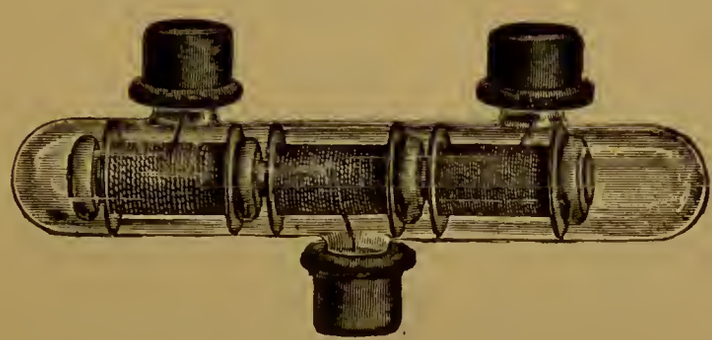


Fig. 346.

	£	s.	d.
Ligature Package, aseptic, containing three reels silk, assorted sizes, Fig. 345	0	3	0
Ditto ditto ditto ditto catgut, Fig. 346	0	3	0

Fig. 347.

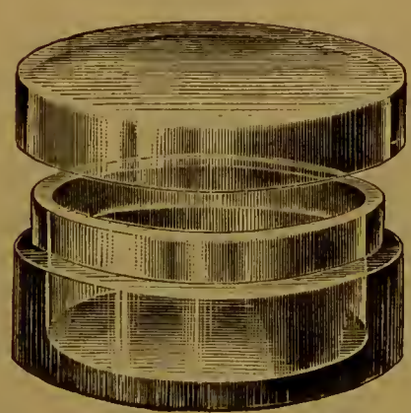


Fig. 348.

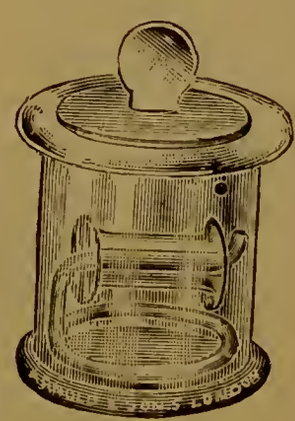


Fig. 349.

uture Tablet, aseptic, glass, for silk or catgut, Fig. 347	0	2	0
Needle Boxes, aseptic, glass, with covers, Fig. 348 ... 1s. 6d. and	0	2	6
Ditto ditto metal, nickel-plated ... 1s. 6d., 1s. 9d., and	0	2	0
igature Bottle, aseptic, with one glass reel, Fig. 349	0	3	0
Ditto ditto with three ditto	0	5	6

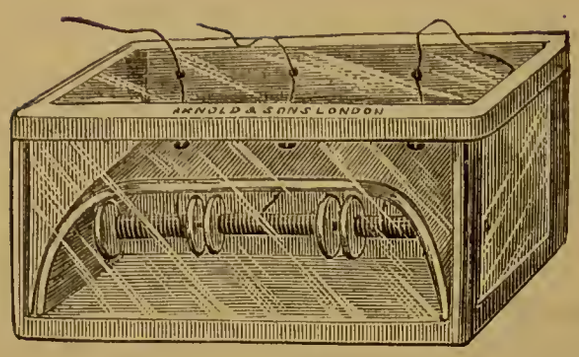


Fig. 350.

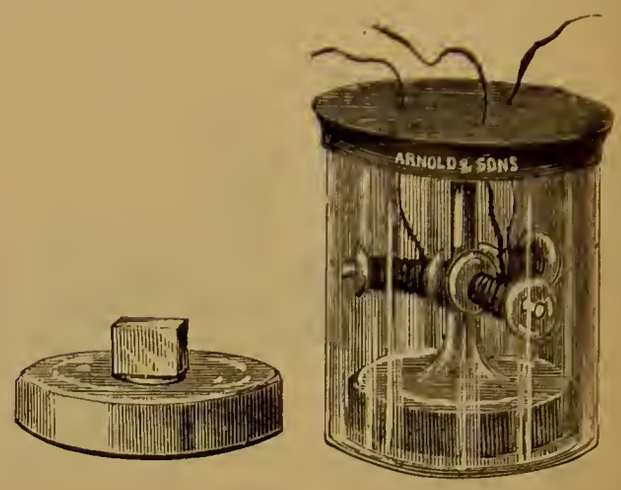


Fig. 351.

	£	s.	d.
Ligature Trough, aseptic, glass, with three glass reels, Fig. 350 ...	0	6	6
Ditto ditto ditto two large ditto	0	9	6
Ditto ditto ditto three ditto	0	12	6
Ditto Bottle, ditto Patented (Arnold & Sons' improved), with three glass reels, and India-rubber cover, complete, Fig. 351	0	7	6

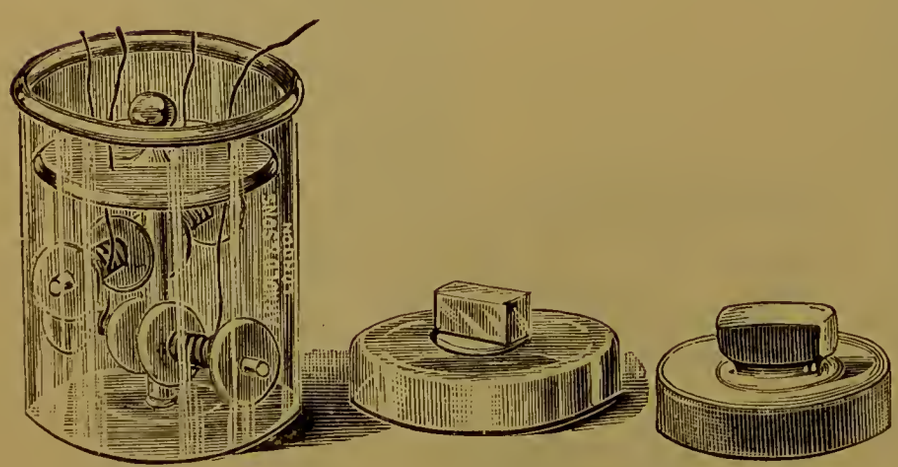


Fig. 352.

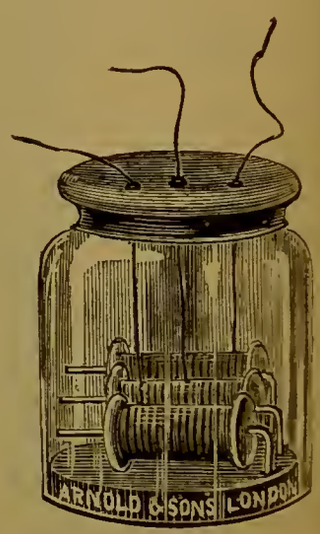


Fig. 353.

Ligature Bottle, aseptic, glass, with inner removable glass receiver and four glass reels, the whole composed entirely of glass, with cover, Fig. 352	0	10	6
Ditto ditto ditto ditto with six reels	0	12	6
Ditto ditto ditto (Bruce Clarke's), with three glass reels on metal base, and India-rubber cover, Fig. 353... ...	0	8	6

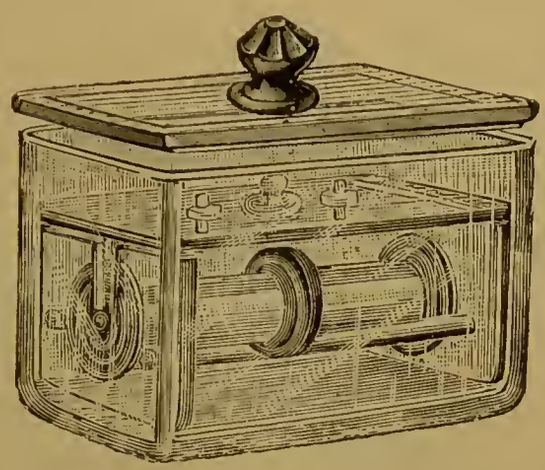


Fig. 354.

	£	s.	d.
Ligature Trough, large, aseptic, glass, with two large glass reels, Fig. 354	0	12	6

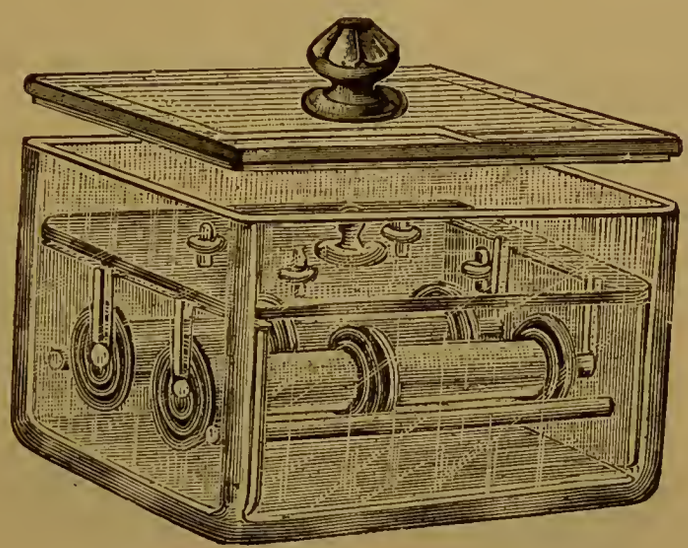


Fig. 355.

Ligature Trough, extra large, aseptic, glass, with four large glass reels, Fig. 355	0	15	6

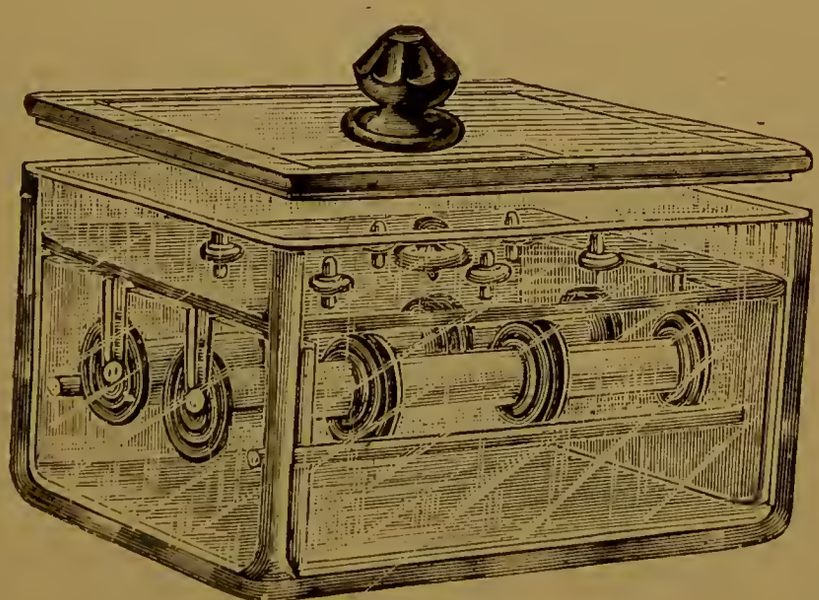


Fig. 356.

Ligature Trough, extra large, aseptic, glass, with six large glass reels, Fig. 356	1	4	0

Lancets, Fleams, &c.

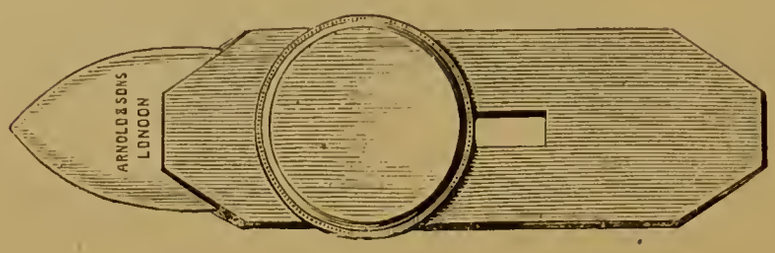


Fig. 357.

	£	s.	d.
Bleeding Lancet, Horse, with regulating slide, brass handle, Fig. 357	0	3	6

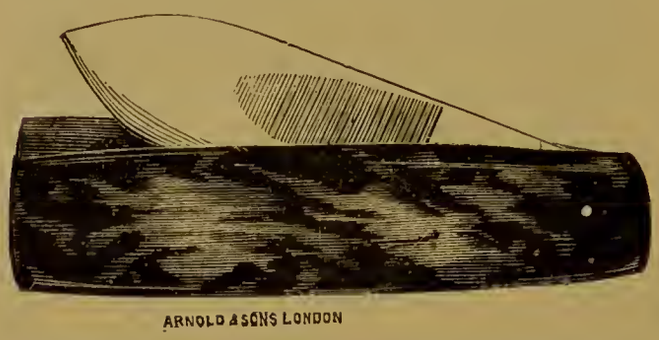


Fig. 358.

Bleeding Lancet, Horse, tortoiseshell handle, Fig. 358	0	3	0
Ditto ditto aseptic metal handle	0	3	6

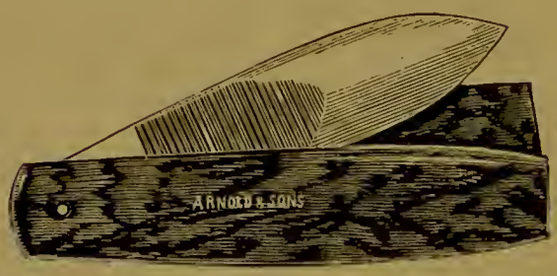


Fig. 359.

Bleeding Lancet, for small animals, tortoiseshell handle, Fig. 359...	0	2	6
Ditto ditto ditto aseptic metal handle	0	3	0

Fig. 360.

	£	s.	d.
Bleeding Lancet, Eye, tortoiseshell handle, Fig. 360	0	2	6
Ditto ditto aseptic metal handle	0	3	0

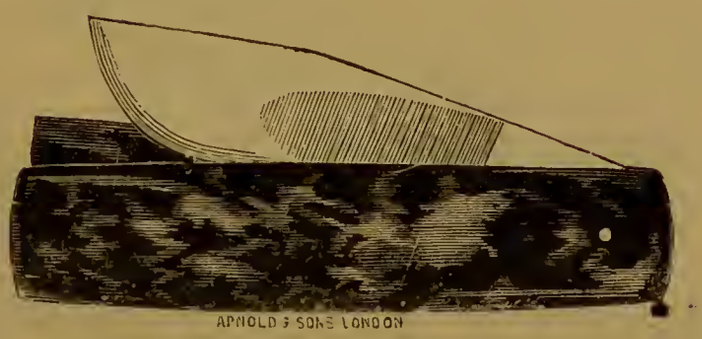


Fig. 361.

Abscess Lancet, tortoiseshell handle, Fig. 361	0	3	0
Ditto ditto aseptic metal handle	0	3	6

Fig. 362.

Gum Lancet, with spring back, horn handle, Fig. 362	0	3	0
Ditto ditto ditto ditto and French catch	0	4	0
Ditto ditto ditto aseptic metal handle	0	3	6
Ditto ditto extra long and large	0	7	0
Lancet Case, leather, for one lancet	0	0	8
Ditto ditto two ditto	0	1	0
Ditto ditto three ditto	0	1	0

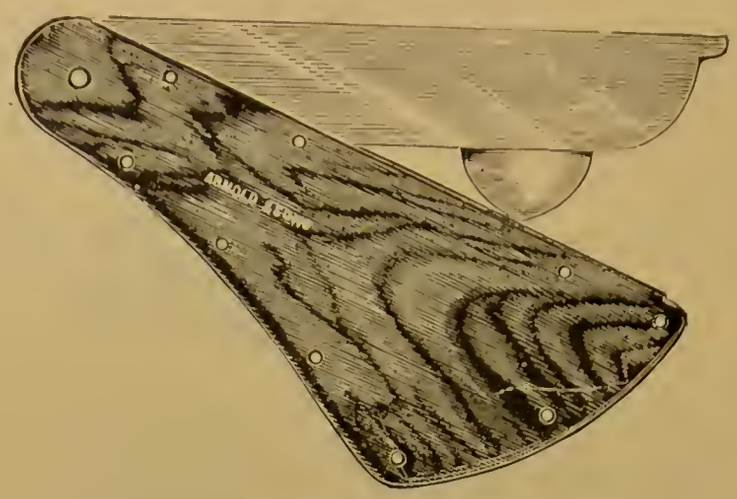


Fig. 363.

	£	s.	d.
Fleam, horn handle, one blade, for horse or cattle, Fig. 363 ...	0	3	6
Ditto brass handle ditto ditto	0	3	0

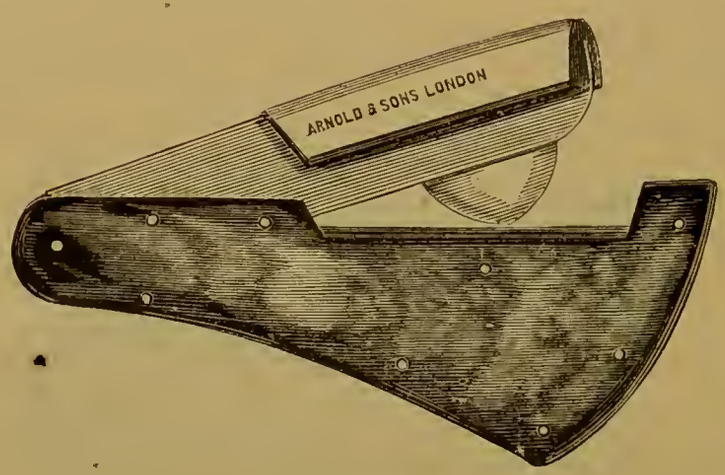


Fig. 364.

Fleam, with Arnold & Sons' improved back, horn handle, can be struck with the hand, dispensing with bloodstick, Fig. 364 ...	0	5	0
Ditto ditto ditto aseptic metal handle	0	6	0

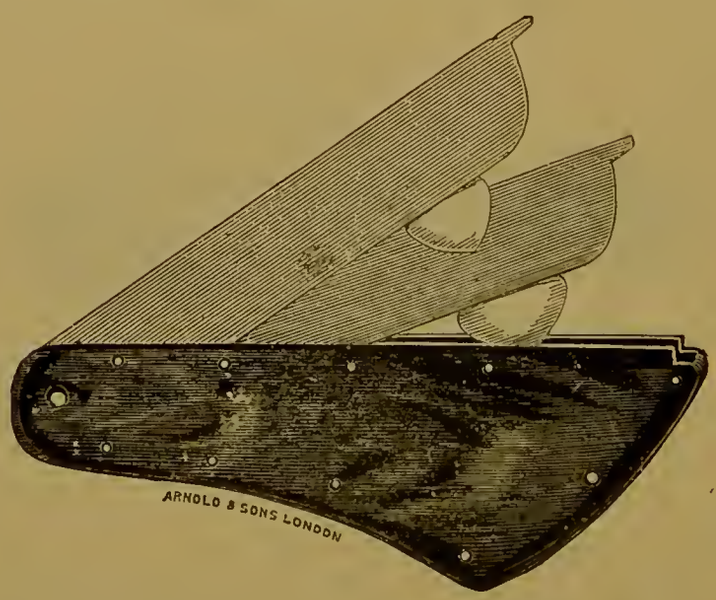


Fig. 365.

Fleam, horn handle, two blades, for horse or cattle, Fig. 365 ...	0	5	6
Ditto brass handle ditto ditto	0	5	0

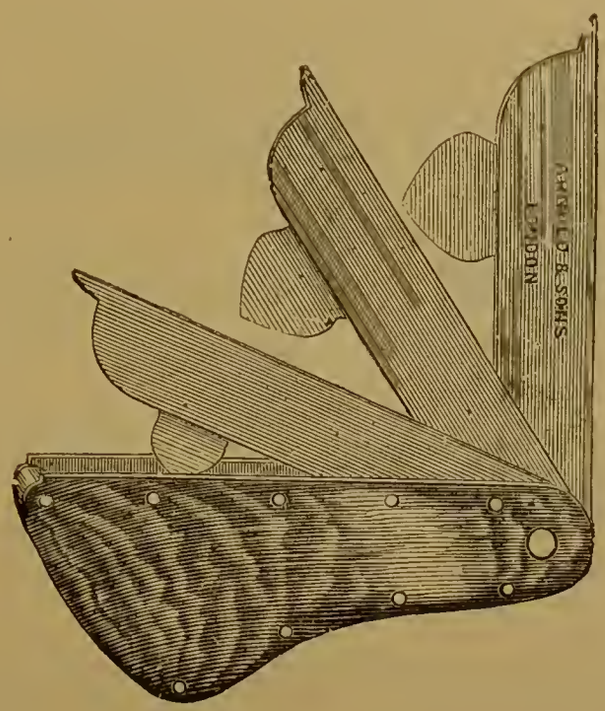


Fig. 366.

	£	s.	d
Fleam, horn handle, three blades, for horse or cattle, Fig. 366 ...	0	7	0
Ditto brass handle ditto ditto	0	6	6

Fig. 367.

Bloodstick, loaded with lead, and opening at top for pins, Fig. 367	0	2	0

Probangs and Catheters.

Fig. 368.

	£	s.	d.
Cattle Probang (Monro's), spiral wire, covered leather, with brass mounts and cane stilette, Fig. 368	0	16	0
Ditto ditto ditto with gag, complete	0	18	6
Ditto ditto elastic gum web, with horn mounts and cane stilette	0	16	0
Ditto ditto ditto with gag, complete	0	18	6
Ditto ditto (Varnell's), with cane stilette, and brass mounts to unscrew for portability	1	2	6

Fig. 369.

Cattle Probang, spiral wire, covered leather with brass mounts, cane stilette, and fitted with corkscrew, Fig. 369	1	0	0

Fig. 370.

Cattle Probang, with spring forceps for withdrawing, as made for Her Majesty's Government, Fig. 370	2	2	0

Fig. 371.

Calf Probang (Monro's), elastic gum web, with cane stilette, Fig. 371	0	10	0
Sheep ditto ditto ditto ditto	0	7	6

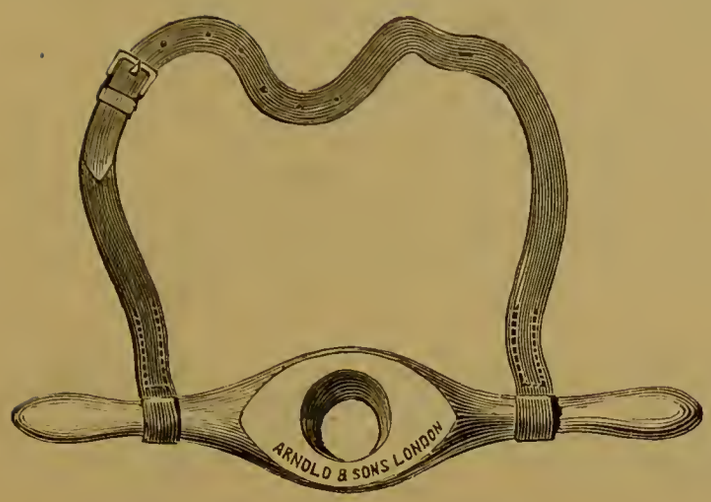


Fig. 372.

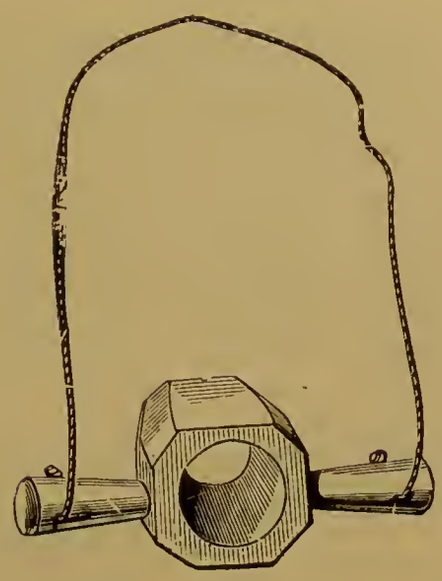


Fig. 373.

	£	s.	d.
Mouth Gag, with straps, for use with Probang, Fig. 372	0	2	6
Ditto (Armatage's), Fig. 373	0	3	0
Ditto Ebony	0	5	0

Fig. 374.

Horse Probang, cane, with horn mount, Fig. 374	0	5	0
Ditto whalebone, ditto	0	18	6
Ditto ditto, with brass mounts to unscrew for portability	1	2	6

Fig. 375.

Œsophageal Probang, for dogs, cats, &c., whalebone, curved or straight, with sponge end, Fig. 375	0	1	6

Fig. 376.

Œsophageal Probang, for dogs, cats, &c., elastic gum web, with sponge end and expanding bristles, Fig. 376, two sizes, each	0	3	0

Fig. 377.

	£	s.	d
Horse Catheter (Arnold & Sons'), spiral elastic gum web, with ivory mount and whalebone stilette, Fig. 377	0	10	0
Ditto ditto ditto with aseptic solid end, as supplied to Her Majesty's Government	0	11	0
Ditto ditto with brass mount to attach to enema syringe	0	12	6
Ditto ditto elastic gum web, with horn mount and cane stilette	0	7	6

Fig. 378.

Horse Catheter (Prof. Axes'), double channel, elastic gum web for washing out the bladder, with brass mount to attach to enema syringe, Fig. 378	1	2	6
Mare ditto ditto ditto ditto	0	17	6

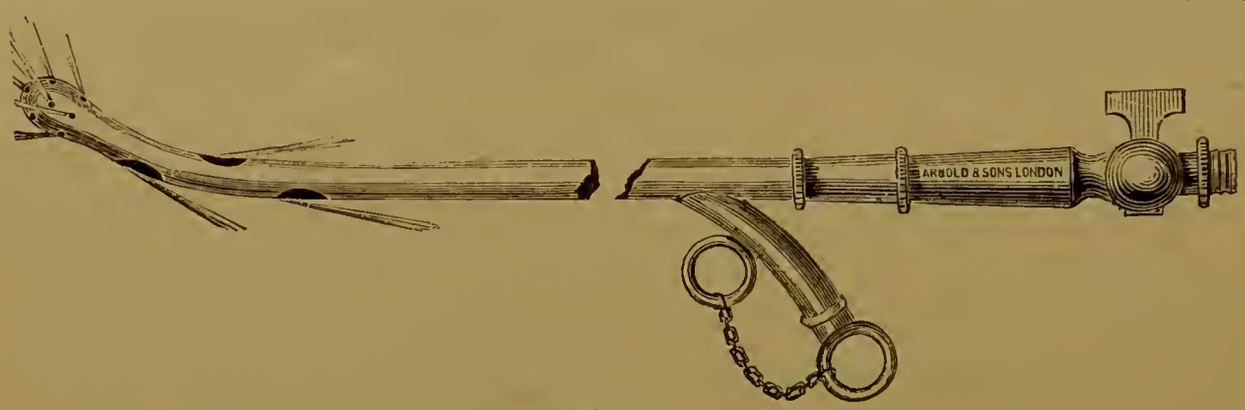


Fig. 379.

Mare Catheter, double channel, plated, with one quart brass syringe for washing out the bladder, Fig. 379	2	7	6

Fig. 380.

Mare Catheter (Arnold & Sons'), spiral elastic gum web, with ivory mount and whalebone stilette, Fig. 380	0	7	6
Ditto ditto ditto with aseptic solid end, as supplied to Her Majesty's Government	0	8	6
Ditto ditto elastic gum web, with horn mount and cane stilette	0	6	0

Fig. 381.

Mare Catheter, metallic, Fig. 381	0	4	6
Foal ditto spiral elastic gum web, with whalebone stilette ...	0	7	6
Sheep ditto ditto ditto	0	4	6

Fig. 382.

	£	s.	d.
Dog Catheter, elastic gum web, assorted sizes, Fig. 382, each 1s. and	0	1	6
Ditto ditto india-rubber	0	2	0

Fig. 383.

Dog Catheter, double channel, elastic gum web, assorted sizes, Fig. 383 ... ... each	0	6	6

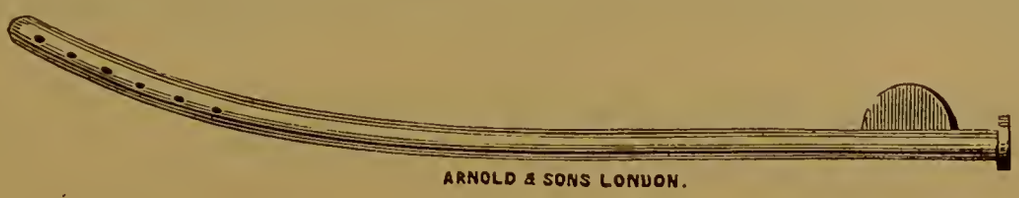


Fig. 384.

Bitch, Catheter, plated, Fig. 384	0	2	6
Ditto ditto silver	0	5	0

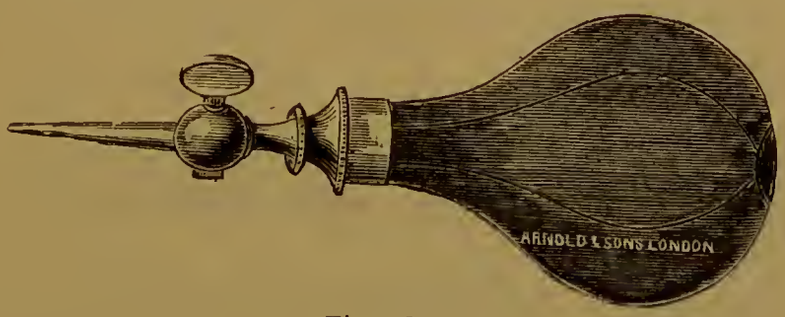


Fig. 385.

Catheter Syringe (Thompson's), for small animals, with taper stop-cock to fit any sized catheter, Fig. 385 ... ... 4-oz.	0	7	6
Ditto ditto ditto ditto ... ... 6-oz.	0	8	6

Balling Instruments and Mouth Gags.

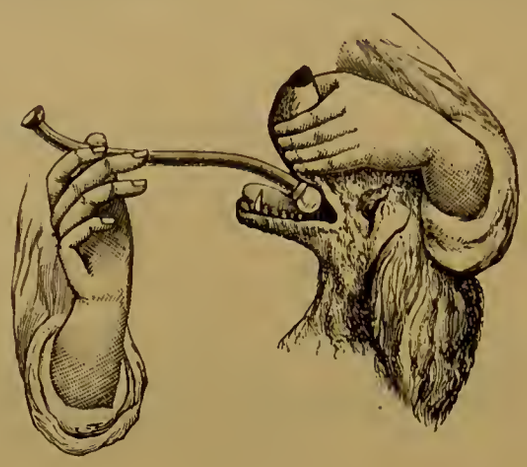


Fig. 386.

	£	s.	d.
Pill Carrier (Fletcher's), for dogs, Fig. 386	0	1	6
Ditto ditto ditto jointed for portability	0	2	6

Fig. 387.

Balling Gun, beech wood, Fig. 387	0	2	6
Ditto ditto polished	0	3	6
Ditto boxwood	0	5	0

Fig. 388.

Balling Gun, spiral wire, covered leather with boxwood mounts, Fig. 388	0	7	6

Fig. 389.

Balling Gun (Arnold & Sons' improved), boxwood, bound with steel bands, and steel rod, as made for the Army, Fig. 389 ...	0	9	6

Fig. 390.

Balling Gun (Nelson's), portable, Fig. 390	0	10	6

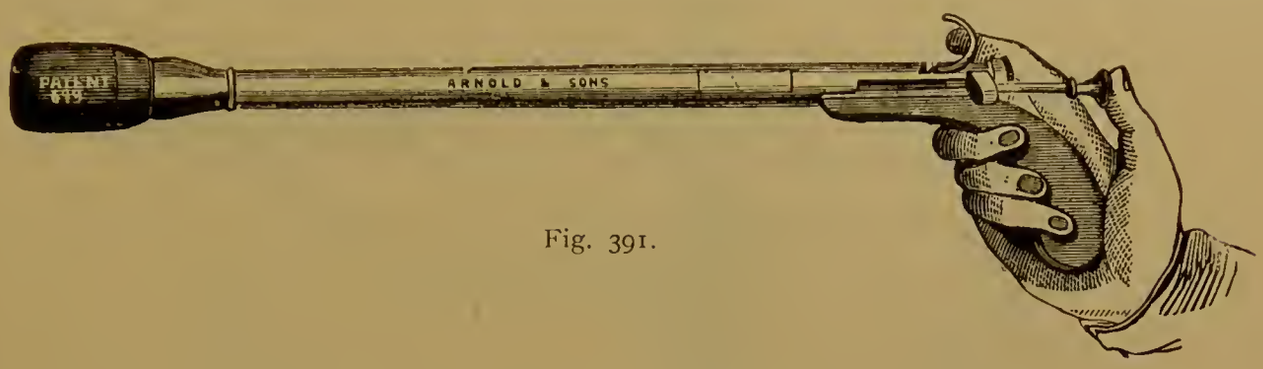


Fig. 391.

	£	s.	d.
Balling Gun (Arnold & Son's patent), brass, with spring rod and india-rubber mouthpiece, Fig. 391	0	12	6

The above can be used with one hand, is noiseless in action, does no alarm the animal, and the cup-piece being of india-rubber, it is impossible to injure the mouth.

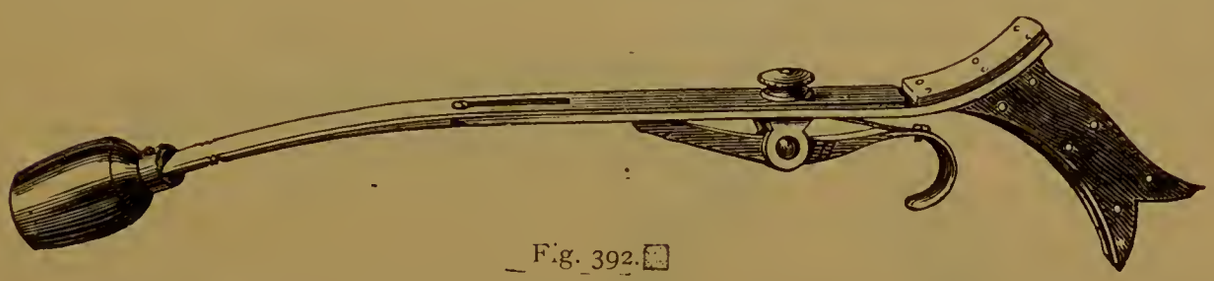


Fig. 392.

Balling Gun (Goodwin's), sliding, Fig. 392	1	5	0

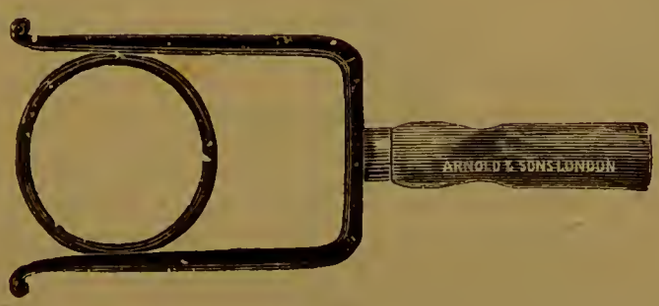


Fig. 393.

Mouth Gag, Horse, circular, Fig. 393	0	5	0

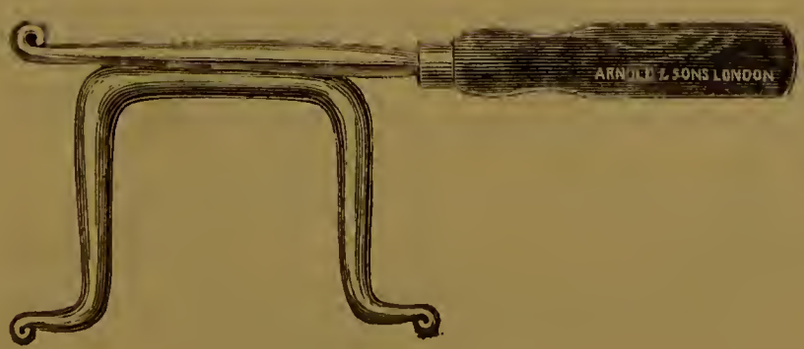


Fig. 394.

Mouth Gag, Horse, open-sided, Fig. 394	0	7	6
Ditto ditto ditto polished	0	10	0

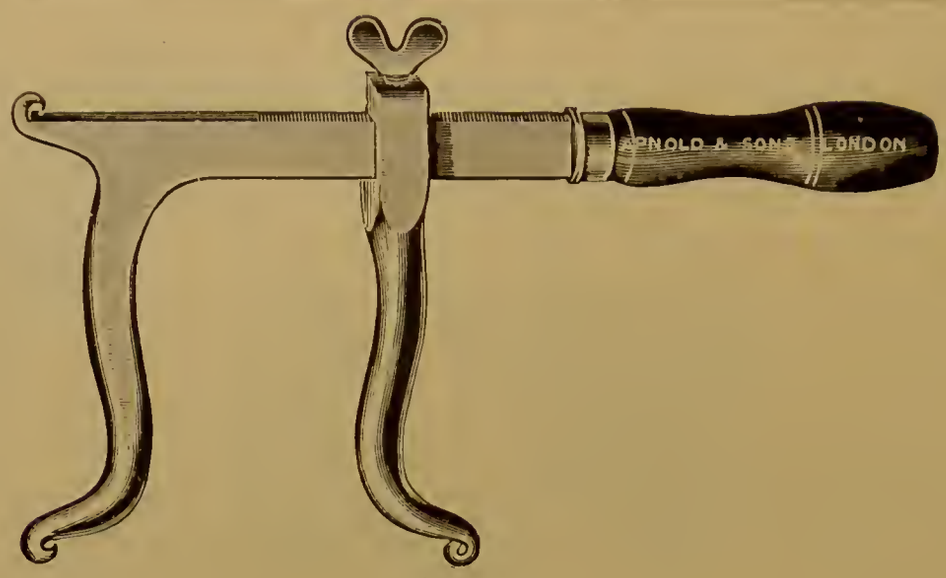


Fig. 395.

	£	s.	d.
Mouth Gag, Horse (Blake's), with sliding bar, Fig. 395	0	14	6

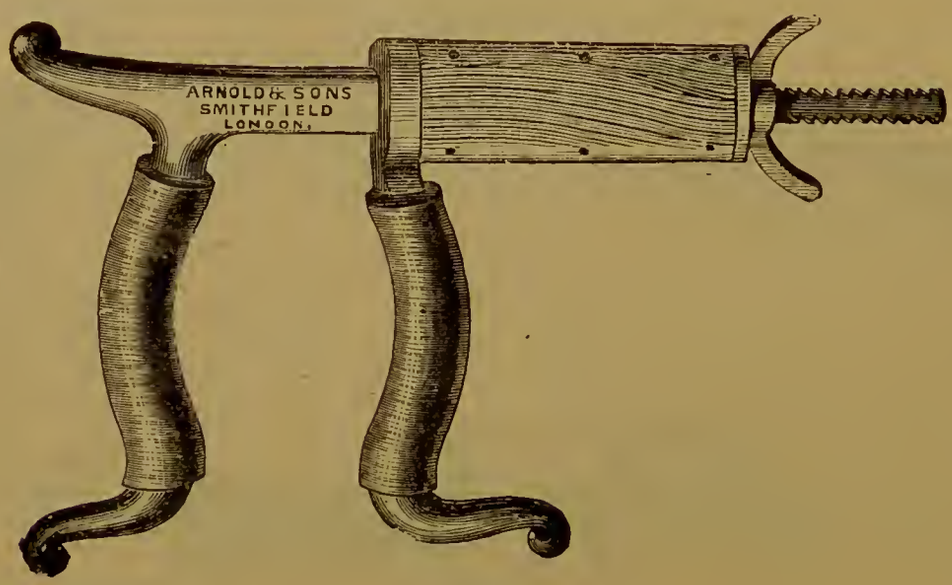


Fig. 396.

Mouth Gag, Horse (Varnell's) with screw regulating bars, covered with india-rubber to protect the gums, Fig. 396	1	1	0

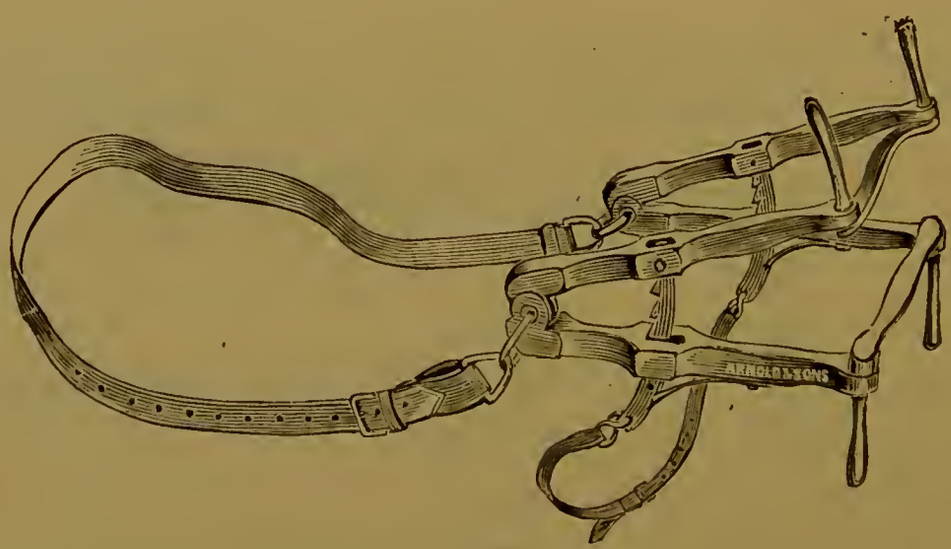


Fig. 397

Mouth Gag, Horse (Boswell's) with regulating rack, Fig. 397 ...	1	15	0

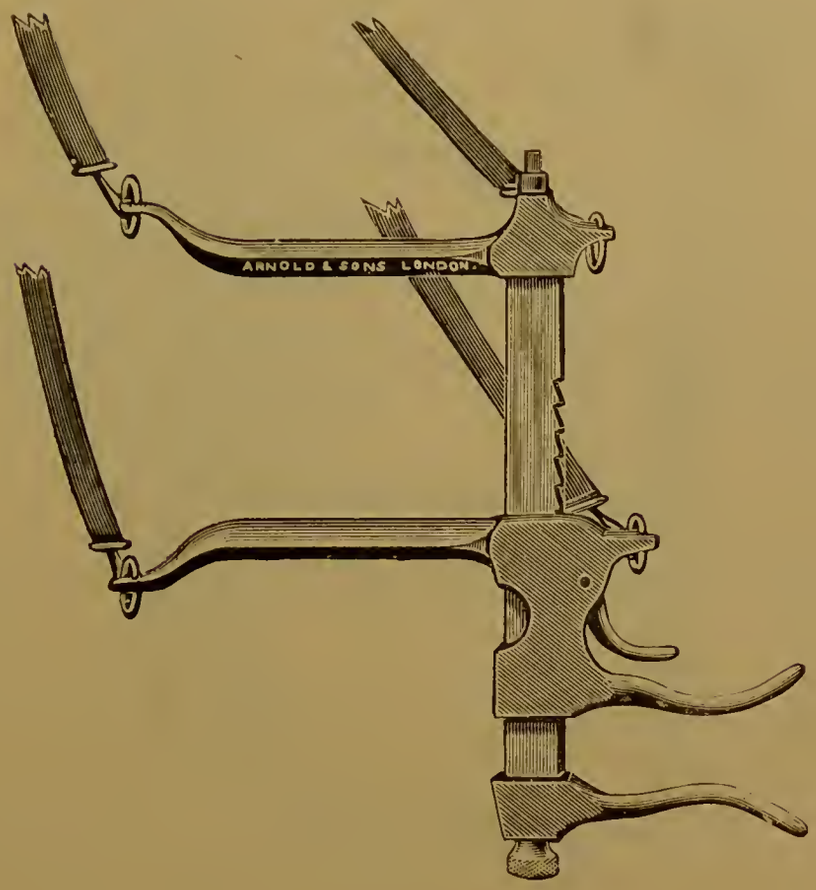


Fig. 398.

	£	s.	d.
Mouth Gag, Horse, with regulating rack, nickel-plated, Fig. 398 ...	1	15	0

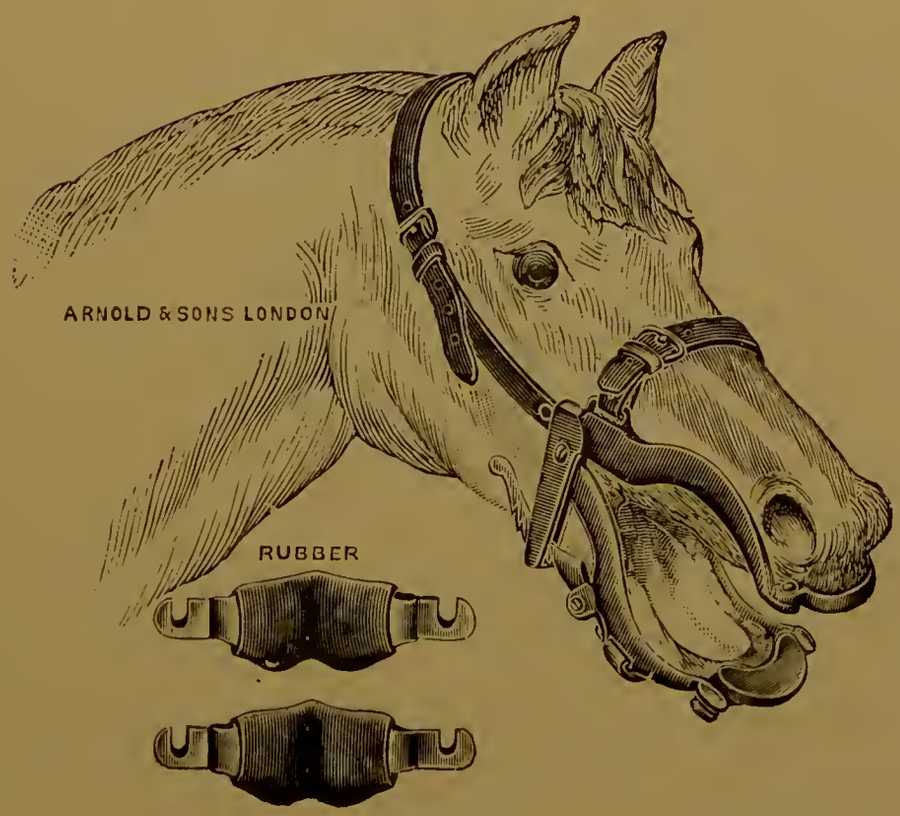


Fig. 399.

Mouth Gag, Horse (American pattern), with regulating rack and spare plates, nickel-plated, Fig. 399	2	2	0

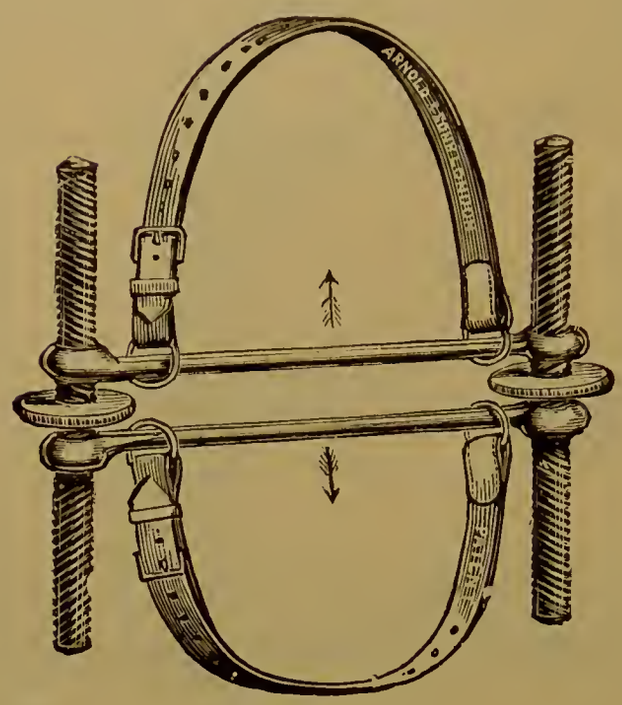


Fig. 400.

	£	s.	d.
Mouth Gag (Prof. Hobday's), Patented, for dogs, cats, &c., Fig. 400	0	9	6

Extract from "THE VETERINARY RECORD."

Below is a description of an instrument designed to open the mouth of the dog, which was introduced by Professor Hobday to the members of the Central Veterinary Medical Association at their meeting in December last. It consists of two screws, one on either side, which are made to revolve by a centre nut, and two bars which move towards one another (or *vice versâ*) when the nuts are turned. Upon these bars are straps for passing over the upper and lower jaws, and sliding loosely in such a manner that they can be adjusted to any size of animal. With the exception of the straps, the instrument is made entirely of metal, and so can be kept thoroughly clean and aseptic. It is made of a new metal, which is beautifully smooth and soft to the touch (thus dispensing with rubber coverings, which soon become injured and dirty), and will not corrode or rust in any way.

The method of application is as follows: Secure the patient firmly by the aid of an assistant, or on an operating table, and place the closed gag in the animal's mouth, tightening the straps which pass over the upper and lower jaws. When ready to open the mouth, turn the two screws together equally and steadily, and the jaws will be slowly forced apart. It has been thoroughly tested on all breeds of dogs, and will be found of service when wishing to extract teeth, or to examine the mouth in order to remove bones, needles, or other foreign bodies which are frequently found there.

The article can be obtained from Messrs. ARNOLD & SONS, of West Smithfield, who are the manufacturers and patentees.

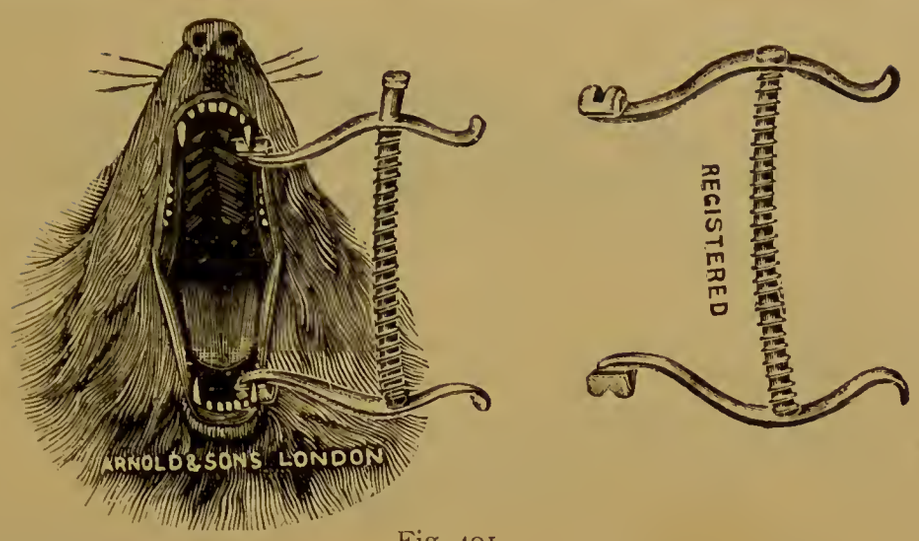


Fig. 401.

	£	s.	d.
Mouth Gag, "Reliance" (Registered), for dogs, cats, &c., nickel-plated, Fig. 401	0	10	6

Extract from "THE VETERINARIAN,"

The "Reliance" Mouth Gag for Dogs or Cats has been invented by Messrs. ARNOLD & SONS. As seen in accompanying drawing, it consists of two transverse curved bars, the inferior bar being fixed. The superior bar is pierced to receive the single slightly curved supporting stem, upon which is coiled a steel spring, keeping the gag open. It is fixed open in any position by the pressure of the teeth upon the ends of the transverse bars, which are guarded by neatly adjusted india rubber pads to prevent injury to buccal membrane or teeth.

It can be inserted between the molars or incisors of either side.

For a combination of lightness, strength, simplicity, and efficiency it leaves little to be desired."

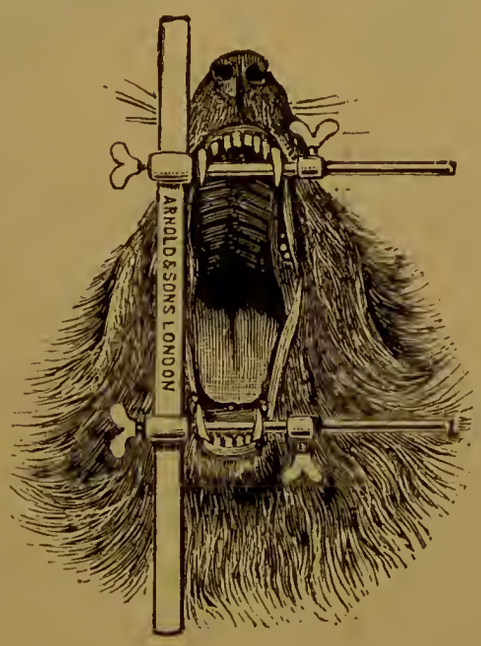


Fig. 402.

Mouth Gag (Gray's), for dogs, cats, &c., nickel-plated, Fig. 402	0	15	0

Extract from "THE VETERINARY JOURNAL."

I beg to enclose you a photograph of my "dog's mouth-gag or speculum" in use on a collie.

It is easily fixed and retained in the mouth behind the incisors, if the jaws are separated to their fullest extent. The advantages I claim for it are:—

(1) The mouth is distended so that the jaws are immovable, acting like a twitch would be to a horse, by diminishing the resisting power of the animal.

(2) The interior of the mouth, including the tongue, teeth, tonsils, soft palate, etc., as well as the pharynx and larynx, can easily be examined.

(3) There is only one long upright bar to the instrument, the other side being left free so as not to confine manipulatory movements on the part of the operator.

(4) It can be used on all animals from the size of a St. Bernard to a cat.

Messrs. ARNOLD & SONS, London, are the makers.

Fig. 403.

	£	s.	d.
Mouth Gag (Ferguson's), for dogs, cats, &c., with spring and rack, ebony handle, Fig. 403	0	17	6
Ditto ditto ditto aseptic metal handle...	1	1	0

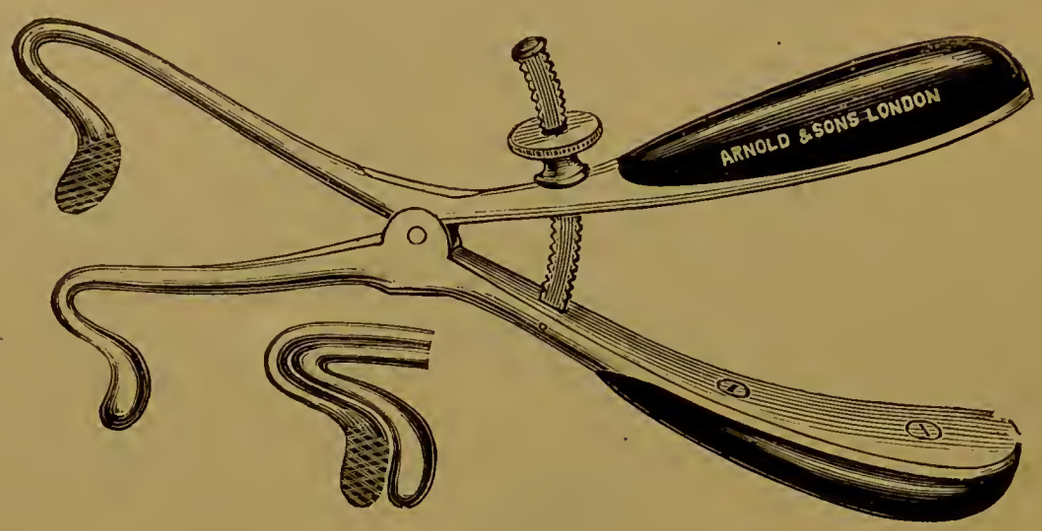


Fig. 404.

Mouth Gag (Ackland's) (Registered), for dogs, cats, &c., with ebony handles, Fig. 404...	1	0	0
Ditto ditto ditto ditto aseptic metal handles ...	1	3	6

Extract from "JOURNAL OF LARYNGOLOGY."

This Gag is the invention of Mr. W. R. Ackland, Dental Surgeon to the Royal Infirmary Bristol, who has very neatly and cleverly solved the question of how to reduce the bulk of the tooth-plate of the gag. This is accomplished by causing the tooth-plates to lie in the same plane when the instrument is ready for insertion, or in other words, edge to edge, not face to face. The obvious advantage of this is that the gag is much more easily introduced between the teeth than the old pattern. This instrument is made by Messrs. ARNOLD & SONS, West Smithfield, London.

Docking Instruments, Tail Cutters, Scissors, &c.

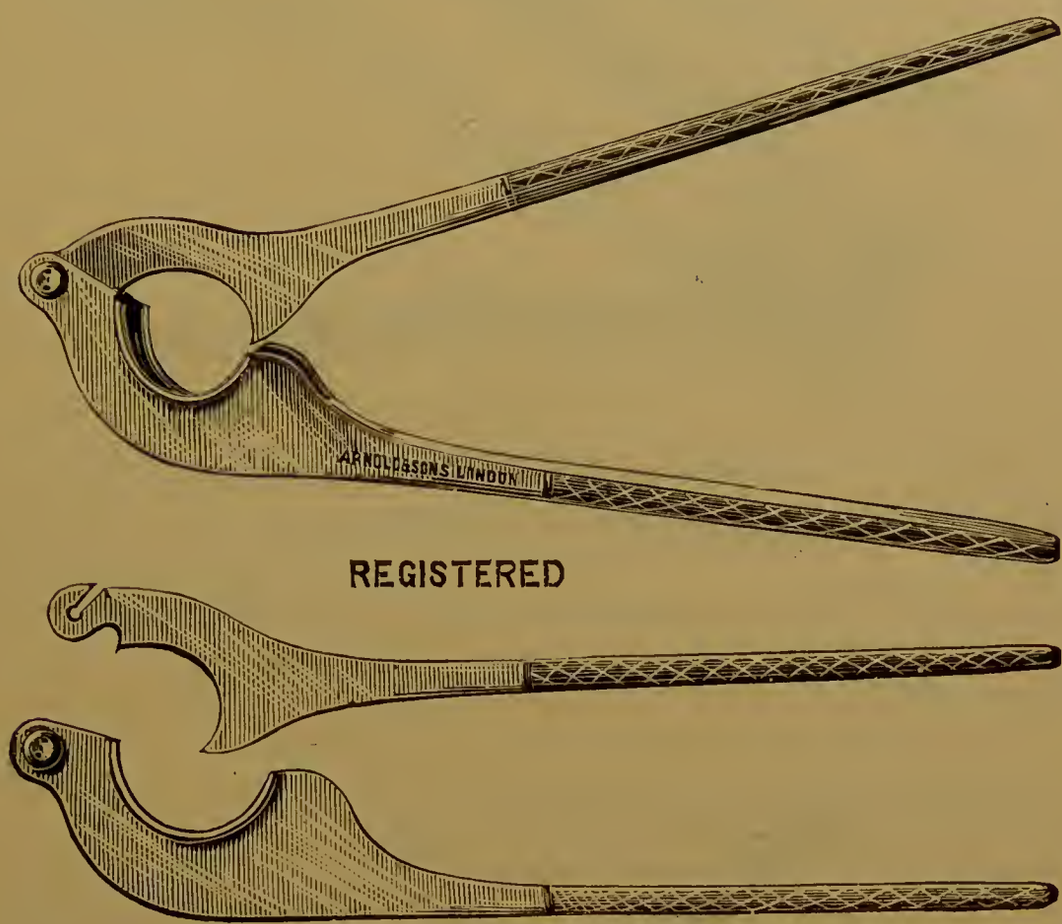


Fig. 405.

	£	s.	d.
Docking Machine "Reliance" (Registered), made entirely of steel, with concave blade and aseptic joint, nickel-plated, Fig. 405 ...	2	2	0

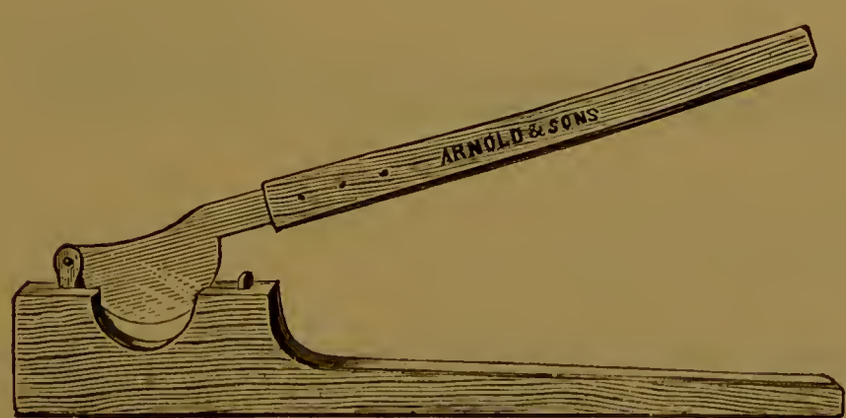


Fig. 406.

Docking Machine (Arnold & Sons'), in beech wood handles, Fig. 406	0	16	0

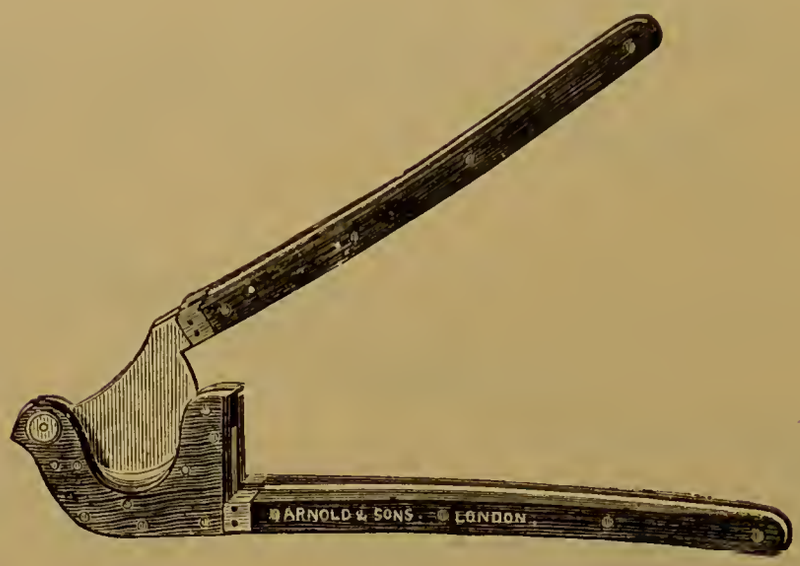


Fig. 407.

	£	s.	d.
Docking Machine (Arnold & Sons' improved), with steel lining, and rosewood scaletang handles, very powerful, Fig. 407	1	10	0
Ditto ditto ditto with two searing irons, in leather pouch, complete	2	10	0

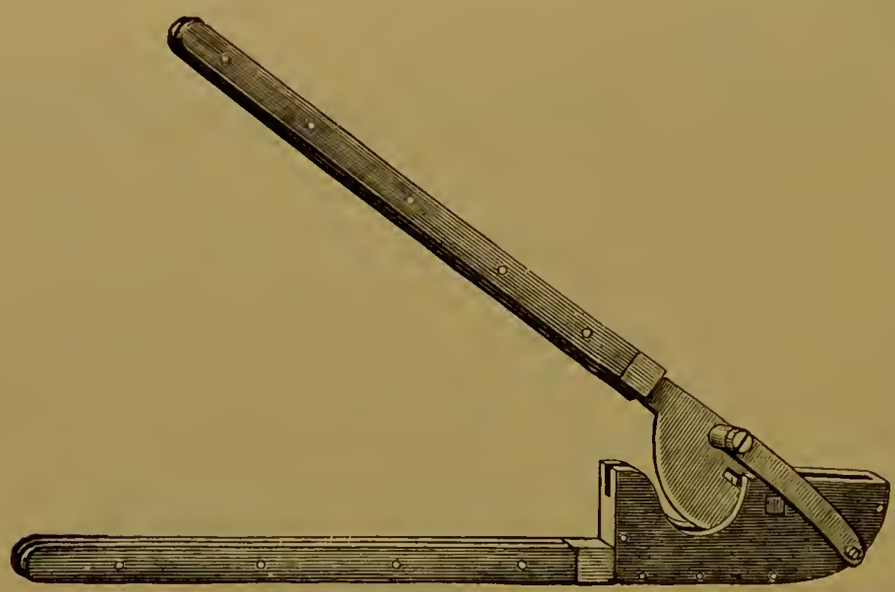


Fig. 408.

Docking Machine (McKenny's), with steel lining and rosewood scaletang handles, Fig. 408	1	15	0

The advantages claimed for this machine are :—

1st.—A forward motion is given to the knife by a slot made in the blade, moving on a fixed pin, thus giving a shearing cut instead of the squeezing effect of an ordinary docker.

2nd.—Great ease in use, performing the operation rapidly, and with less exertion.

3rd.—Less pain to the animal.

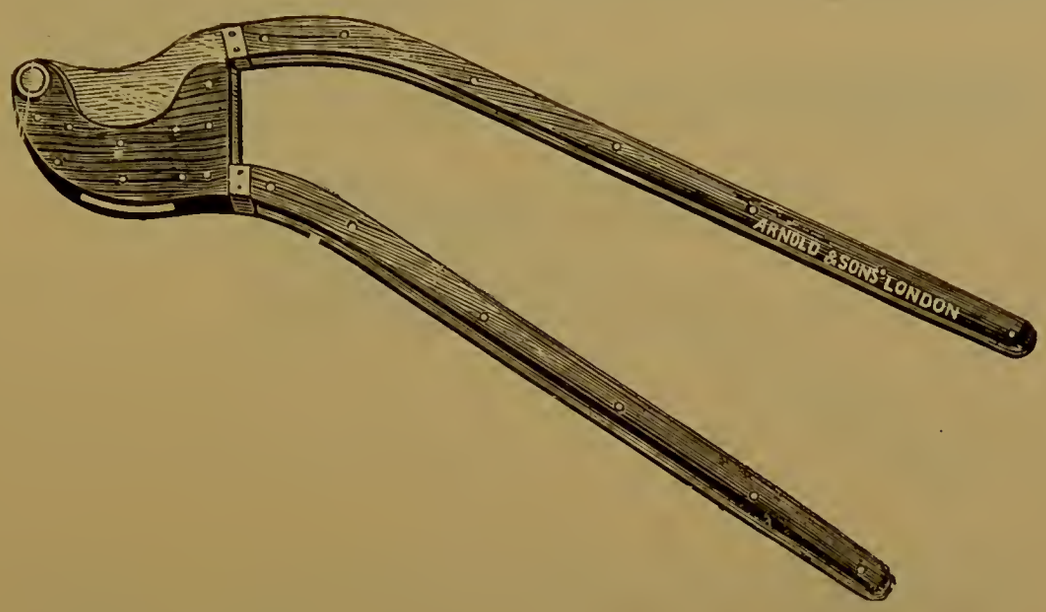


Fig. 409.

	£	s.	d.
Docking Machine (Burchnall's), with steel lining and rosewood scaletang handles, extra long, Fig. 409	1	15	0

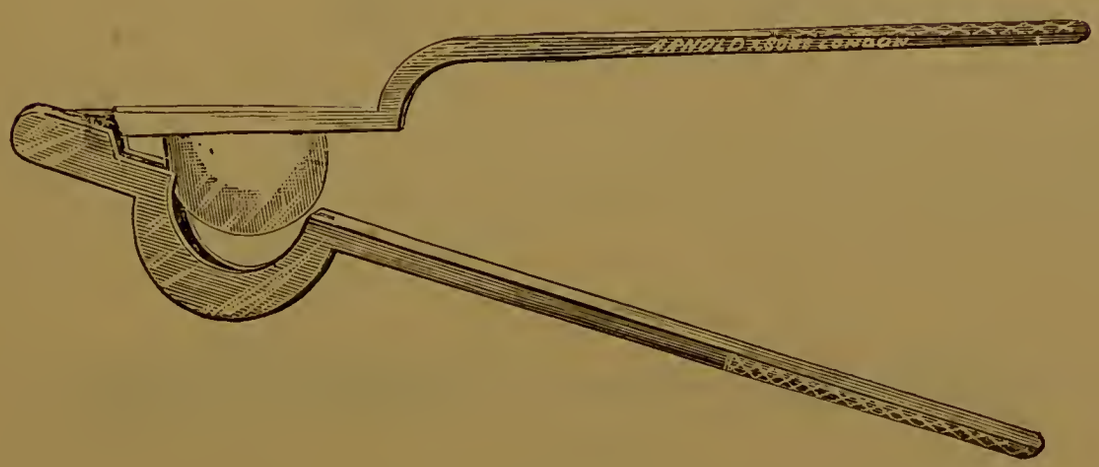


Fig. 410.

Docking Machine (Allnutt's) made entirely of steel, nickel-plated, Fig. 410	1	15	0

COPY OF LETTER RECEIVED.

GENTLEMEN,

I am very pleased with the Docking Machine you have made me from the pattern of the one I sent you. I have used that pattern of Docking Machine for nearly forty years. I consider it by far the best I have ever seen.

Yours faithfully,

HENRY ALLNUTT,

Her Majesty's Veterinary Surgeon at Windsor.

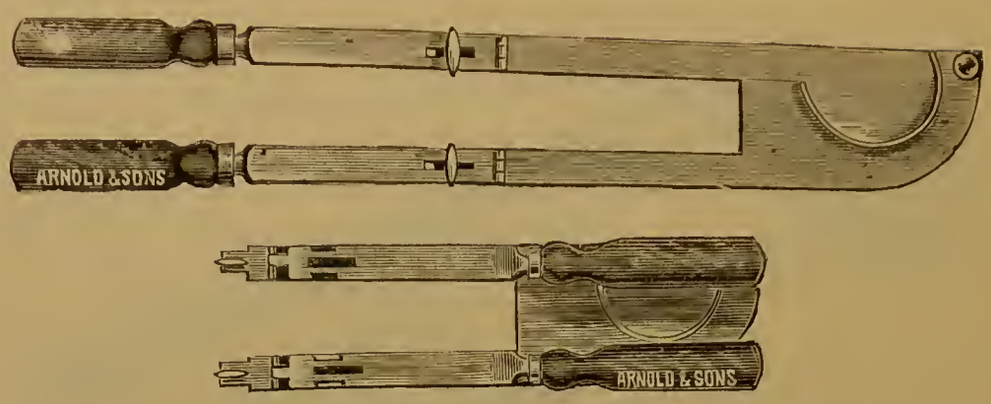


Fig. 411.

	£	s.	d.
Docking Machine (Cooke's), portable, folding, Fig. 411	2	0	0

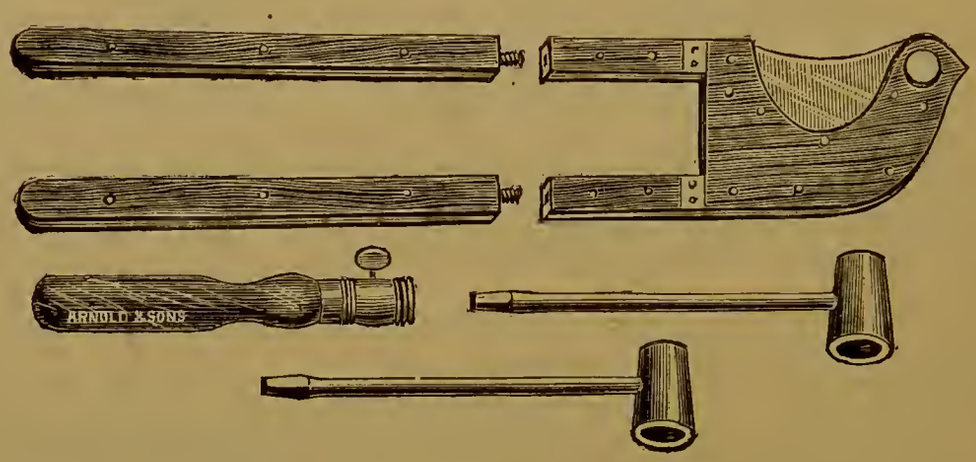


Fig. 412.

Docking Instruments, consisting of Arnold & Sons' improved docking machine, with handles to unscrew, two socket searing irons and one socket handle, in leather case, complete, Fig. 412	2	17	6

Fig. 413.

Docking, Searing, or Tail Iron, bright, in fixed handle, Fig. 413 ...	0	4	6
Ditto ditto ditto black, ditto	0	4	0
Ditto ditto ditto bright, for socket handle	0	4	6

Fig. 414.

Docking, Searing or Tail Iron, for lambs, Fig. 414	0	3	6

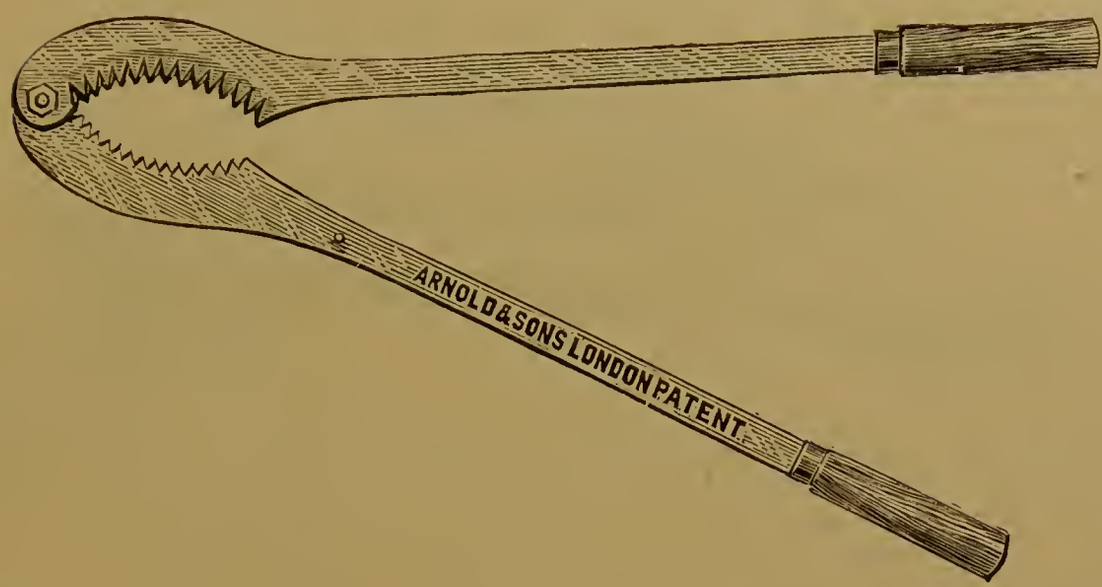


Fig. 415.

	£	s.	d.
Tail Cutter "Reliance" (Patented), Fig. 415	1	1	0
Ditto ditto ditto improved, with spring clip	1	3	6

Extract from "THE VETERINARY RECORD."

Having tried a similar shaped instrument, but without the serrated edge, we confess to having been very sceptical before using the "Reliance." It worked admirably, and the ease with which it went through the hair of some bushy tails established its right to the name. Cutting a horse's tail seems an easy matter, and to the amateur who knows nothing of the artistic points of the equine toilet there is no difficulty. Here and there a man may be found who can produce all the effects wanted by the aid of a long pair of scissors—but the average man cannot, and to him we recommend the "Reliance" Tail Cutter as invaluable. No large stable should be without it.

Extract from "THE VETERINARIAN."

The "Reliance" is a new form of Tail Cutter for squaring horses' tails. It has many advantages over all existing patterns. First—It has two curved blades consisting of a number of small teeth, which prevent the hair or any other substance from slipping, as with the ordinary instrument. Second—When the blades are drawn together, the teeth are so arranged that, on passing each other, anything that may be between them is cut evenly and easily. Third—It does not drag like ordinary shears, on account of the blades having teeth and being curved. Fourth—At the extreme end a nut fixes the two blades together, by which greater leverage is obtained, and therefore much easier for cutting.

Extract from "THE VETERINARY JOURNAL.

It is without doubt the quickest, best, cheapest, and most reliable instrument that has been brought before the notice of the profession. The patentees and makers are Messrs. ARNOLD & SONS, of West Smithfield, London.

Fig. 416.

Tail Cutter (Arnold & Sons' improved), Fig. 416 ... ... 1 0 0

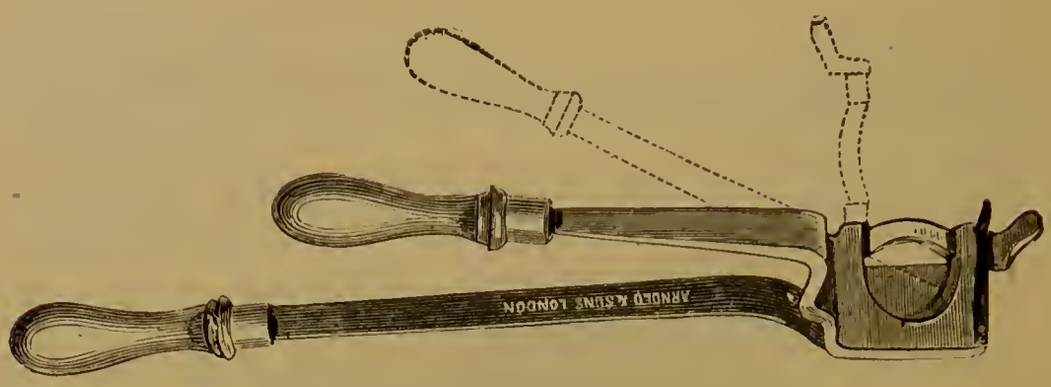


Fig. 417.

	£	s.	d.
Tail Cutter, with spring clip, Fig. 417	1	1	0

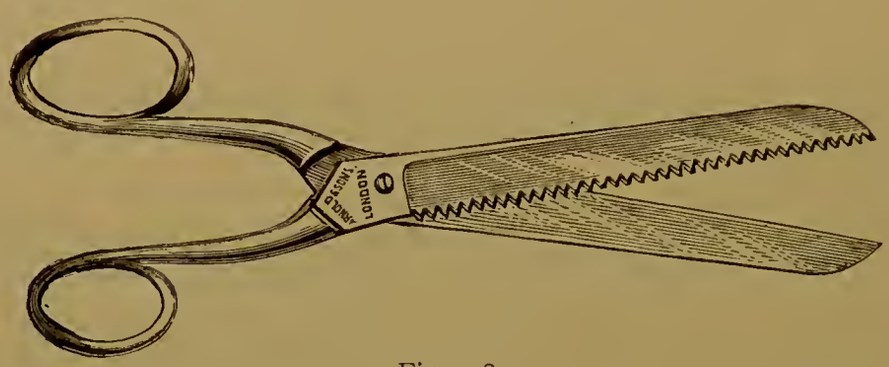


Fig. 418.

Tail Scissors "Reliance" (Arnold & Sons' Patent), Fig. 418 ...	0	12	6

Extract from "THE VETERINARY RECORD."

To do a horse's toilet properly approaches a fine art, and is impossible even to the expert unless the best tools are available. Anyone who has tried to cut a tail with ordinary scissors knows how difficult it is to make neat work. The hair slips from between the blades and the operator has to keep niggling away at stray locks before he produces a level line. Messrs. ARNOLD have brought out a pair of large scissors—their Reliance Tail Scissors. With these the hair of a tail can be cut into any form the fancy of a connoisseur may desire. They do their work admirably.

Extract from "THE VETERINARY JOURNAL."

They have been practically tested, and found to be the best as yet brought before the notice of the profession.

Extract from "THE VETERINARIAN."

The woodcut represents a new form of scissors for cutting or trimming horses' tails. One blade consists entirely of teeth, which prevent the hair from slipping when once caught, whilst the construction is such that these scissors do not become blunt, like the ordinary kind. The patentees and manufacturers are Messrs. ARNOLD & SONS.

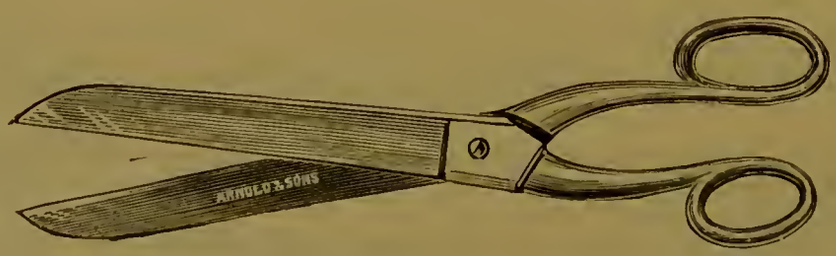


Fig. 419.

Tail Scissors, broad blades, Fig. 419	0	7	6
Ditto narrow blades ... ,, ...	0	6	0

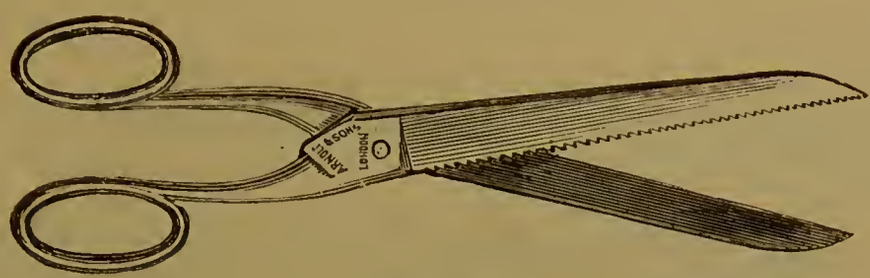


Fig. 420.

	£	s.	d.
Tail Scissors, one blade serrated, to prevent the hair slipping, broad blades, Fig. 420	0	10	0
Ditto ditto ditto narrow blades	0	8	6

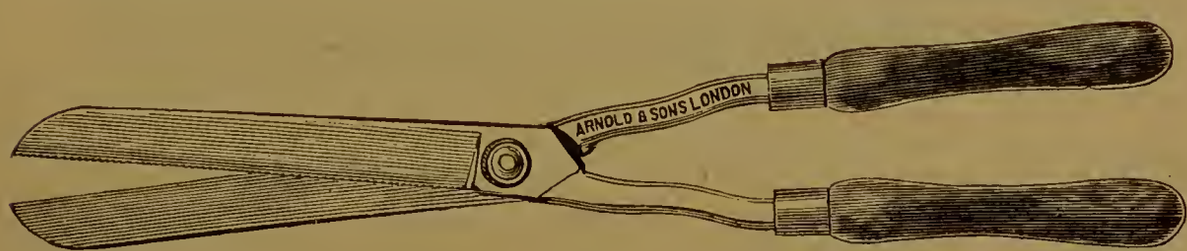


Fig. 421.

Tail Shears (Sheather's), one blade serrated, with long wooden handles, very powerful, Fig. 421	1	10	0

Setoning Instruments.

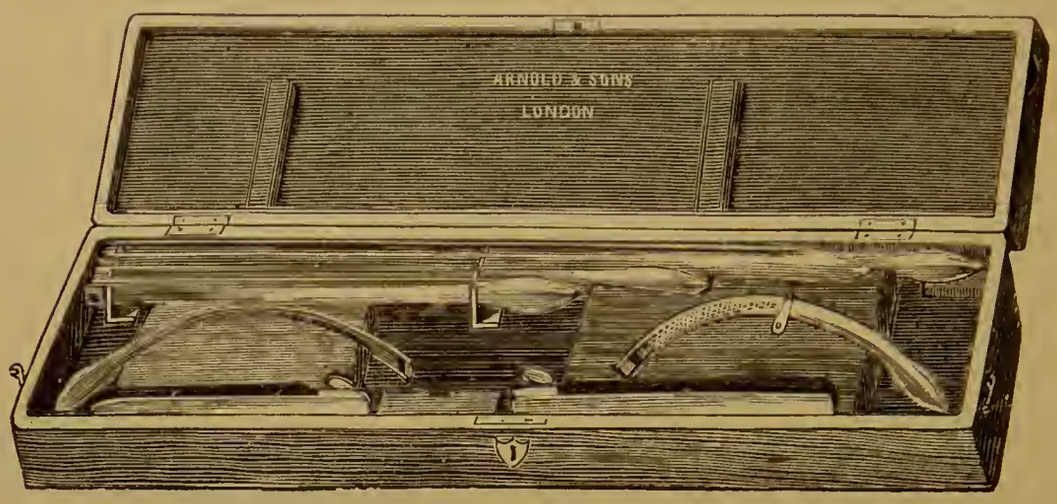


Fig. 422.

Mahogany Case, polished throughout, Fig. 422, containing—

Seton Needle, 13 inches long.
Ditto 11 ditto
Ditto 9 ditto
Ditto 7 ditto

Seton Needle, curved, for Frog.
Ditto side-curved, for Frog (Varnell's).
Two Seton Needle Handles with screw.

	£	s.	d.
The above set complete	1	10	0

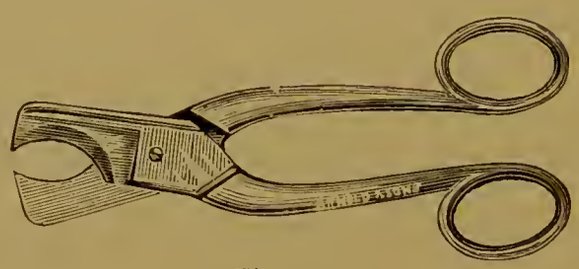


Fig. 423.

Rowelling Scissors, Fig. 423	0	3	6

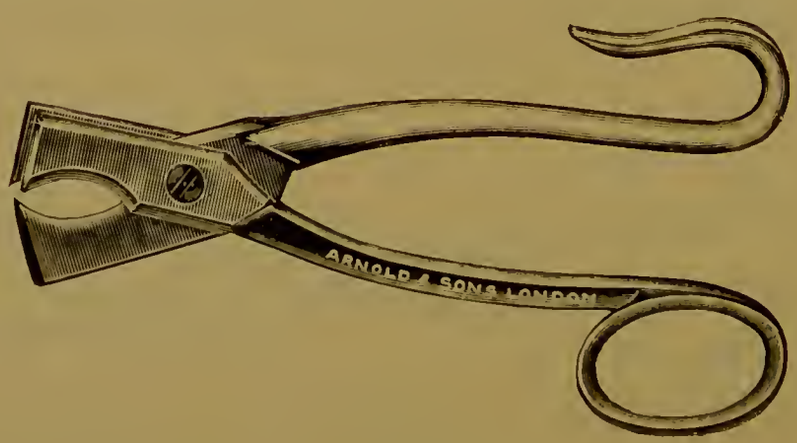


Fig. 424.

Rowelling Bistoury, Fig. 424	0	5	0

Fig. 425.

		£	s.	d.
Seton Needle, with eye at point, in fixed handle, Fig. 425 ...	7 in.	0	3	0
Ditto ditto ditto ditto	8 in.	0	3	6
Ditto ditto ditto ditto	9 in.	0	3	6
Ditto ditto ditto ditto	10 in.	0	4	0

Fig. 426.

Seton Needle, with eye at point, in scaletang ebony handle, French pattern, Fig. 426	7 in.	0	5	6
Ditto ditto ditto ditto	9 in.	0	6	6
Ditto ditto ditto ditto	12 in.	0	7	6

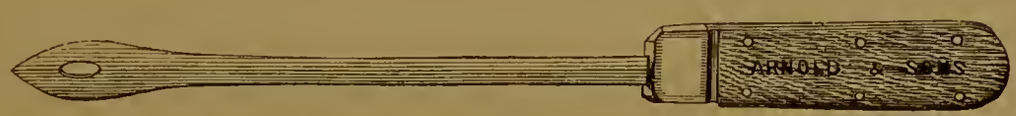


Fig. 427.

Seton Needle, with eye at point, in rosewood handle, with thumb-screw, Fig. 427	8 in.	0	6	0
Ditto ditto	9 in.	0	6	6

Fig. 428.

Seton Needle, Frog, full-curved, Fig. 428	0	2	6

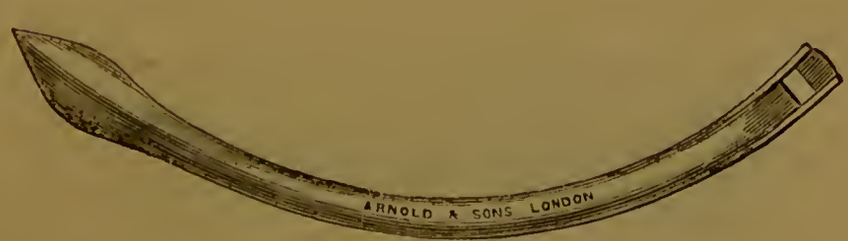


Fig. 429.

Seton Needle (Varnell's), Frog, side curved, Fig. 429	0	3	0

Fig. 430.

		£	s.	d.
Seton Needle, Dewlap, Fig. 430	9 in.	0	3	0

Fig. 431.

Seton Needle, with guarded slide, to cut any depth, Fig. 431 ...	0	16	0

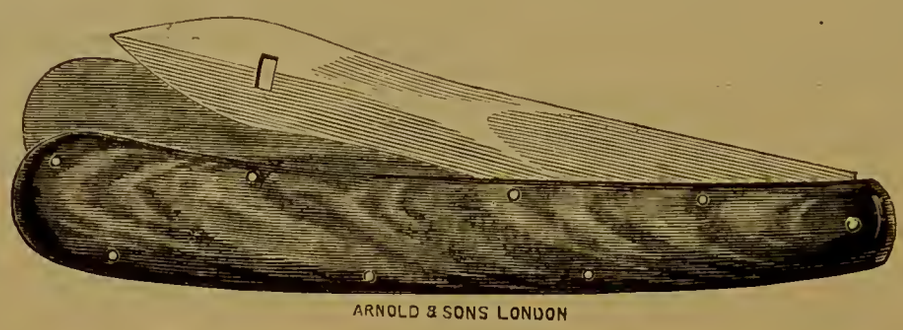


Fig. 432.

Seton Needle, in horn handle, folding, Fig. 432	0	4	6

Fig. 433.

Seton Needle, sharp or probe-pointed, Fig. 433	5 in.	0	2	0
Ditto ditto ditto	6 in.	0	2	0
Ditto ditto ditto	7 in.	0	2	6
Ditto ditto ditto	8 in.	0	3	0
Ditto ditto ditto	9 in.	0	3	0
Ditto ditto ditto	10 in.	0	3	6
Ditto ditto ditto	11 in.	0	3	6
Ditto ditto ditto	12 in.	0	4	0
Ditto ditto ditto	13 in.	0	4	6
Ditto ditto ditto	14 in.	0	5	0
Ditto ditto ditto	15 in.	0	5	6
Ditto ditto ditto	16 in.	0	6	0
Ditto for hock...	...	0	3	0
Ditto (Morton's), for medicated cotton	...	0	5	0

Fig. 434.

Seton Needle Handle, with thumbscrew, Fig. 434	0	3	0

Firing Instruments, &c.

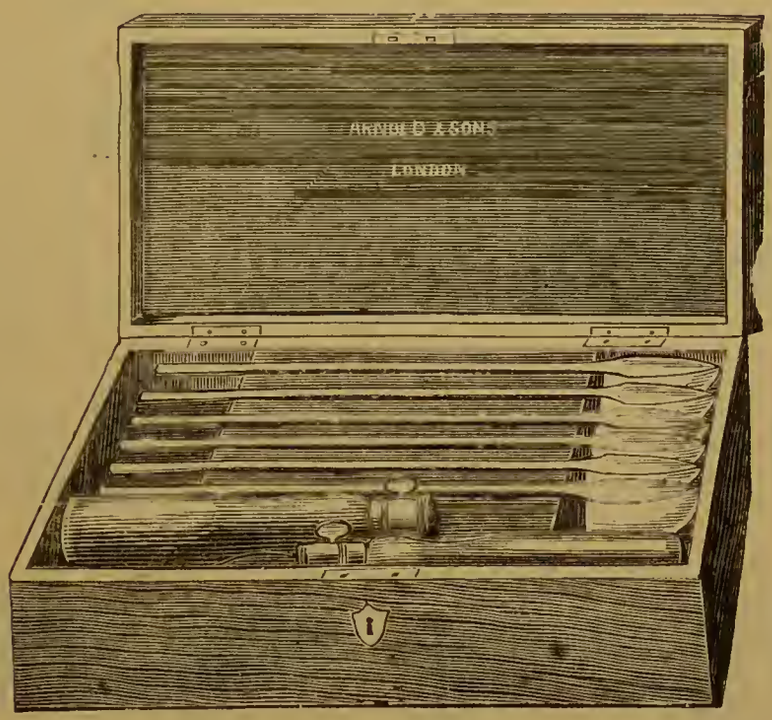


Fig. 435.

	£	s.	d.
Mahogany case, Fig. 435, containing six socket firing irons, bright, with two socket handles, complete	1	10	0

Fig. 436.

Firing Iron, bright, in fixed handle, Fig. 436	0	3	6
Ditto black ditto	0	3	0
Ditto bright, for socket handle	0	3	6
Ditto ditto double ended, in fixed handle	0	7	0

Fig. 437.

Firing Iron, bright, with screw socket handle, Fig. 437	0	6	6

Fig. 438.

Socket Handle, with thumb-screw, for firing iron, Fig. 438... ...	0	3	0

Fig. 439.

Fig. 440.

	£	s.	d.
Firing Iron (Upton's) bright, Fig. 439	0	3	6
Ditto ditto Handle, with improved spring, Fig. 440 ...	0	6	6

Extract from "VETERINARY JOURNAL."

These kind of handles have advantages, inasmuch as they can be applied to any kind of iron, docking, castrating, &c.; they do not get burned in the fire; they cannot become loose like the old-fashioned screw irons; they cannot get hot and burn the hands when operating; they can be packed into less space when riding, and are not so heavy.

Fig. 441.

Fig. 442.

Fig. 443.

Fig. 444.

Fig. 445.

Fig. 446.

Fig. 447.

Fig. 448.

Fig. 449.

Firing Irons, black, various patterns, Fig. 441 to Fig. 449 ...	each	0	3	6

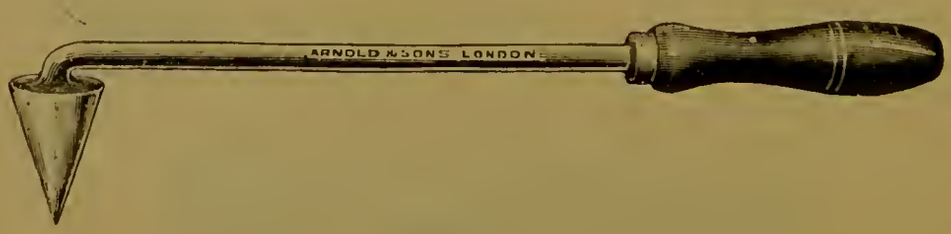


Fig. 450.

Budding Iron, bright, in fixed handle, Fig. 450	0	3	6
Ditto black ditto	0	3	0
Ditto bright, for socket handle	0	3	6

Fig. 451.

	£	s.	d.
Castrating Iron, bright, in fixed handle, Fig. 451	0	3	6
Ditto ditto, black ditto	0	3	0
Ditto ditto, bright, for socket handle	0	3	6

Fig. 452.

Tail Iron, bright, in fixed handle, Fig. 452	0	4	6
Ditto black ditto	0	4	0
Ditto bright, for socket handle	0	4	6

Fig. 453.

Spavin Punch, with 12 points, Fig. 453	0	13	0
Ditto 9 ditto	0	11	0
Ditto 6 ditto	0	8	0
Ditto 3 ditto	0	6	0

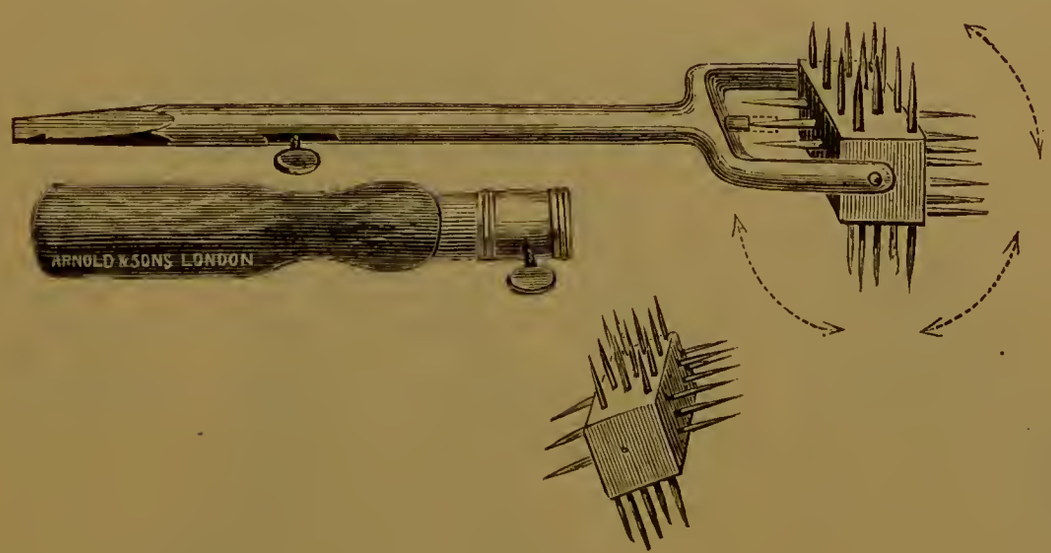


Fig. 454.

Spavin Punch (Prof. Robertson's), revolving, with screw socket handle, Fig. 454	1	5	0

This instrument is so constructed that either 3, 5, 7, or 11 points can be used.

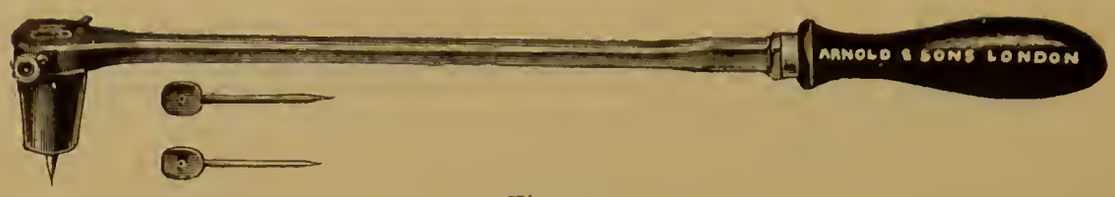


Fig. 455.

	£	s.	d.
Pyro Puncture Iron, with three copper needles, Fig. 455	0	5	6

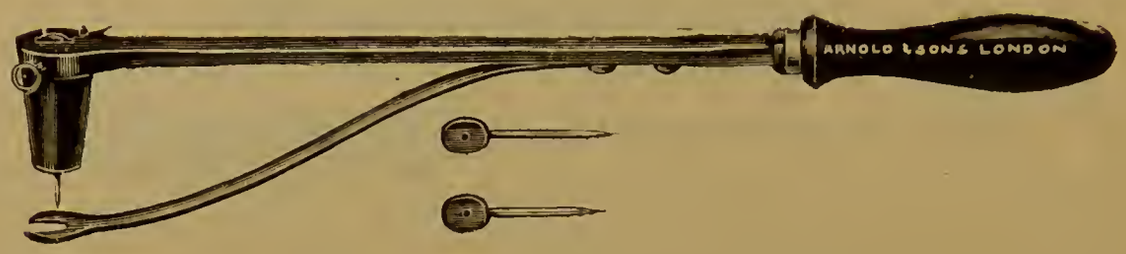


Fig. 456.

Pyro Puncture Iron, with three copper needles and insulator, Fig. 456	0	8	0

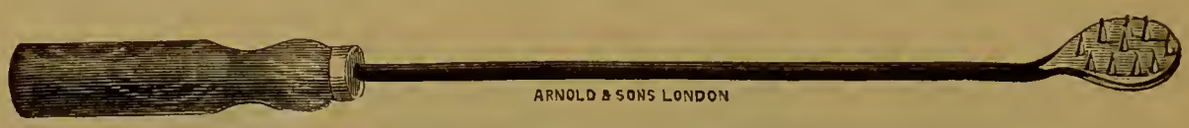


Fig. 457.

Pyro Puncture Iron, with 12 points, Fig. 457	0	12	0
Ditto ditto 9 ditto	0	10	0
Ditto ditto 6 ditto	0	8	0

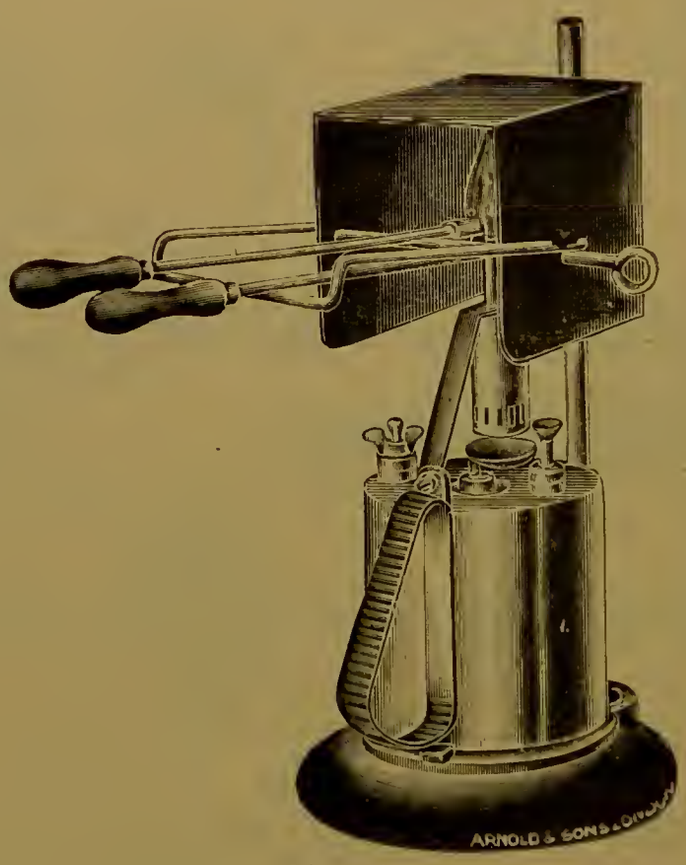


Fig. 458

Heating Apparatus, with stand, for firing irons, etc., Fig. 458 ...	1	7	6

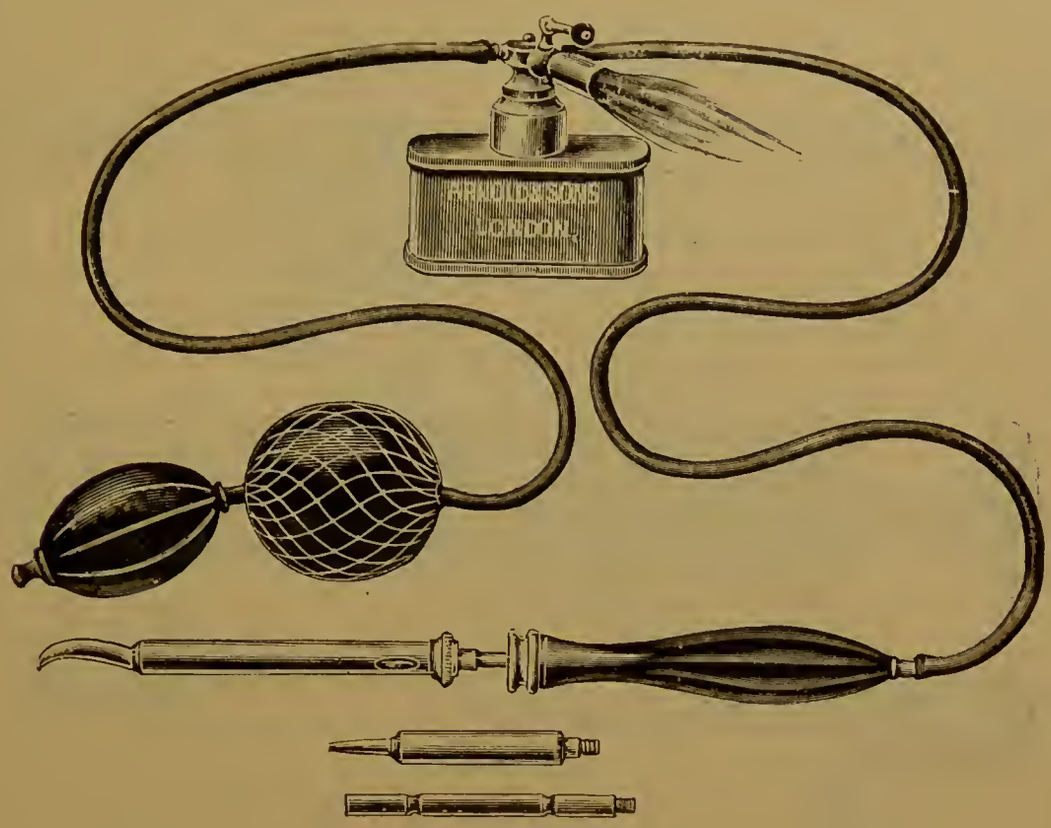


Fig. 459.

	£	s.	d.
Thermo Cautery, portable, with two platinum burners, spirit lamp, etc., in leather case, complete, Fig. 459...	3	15	0

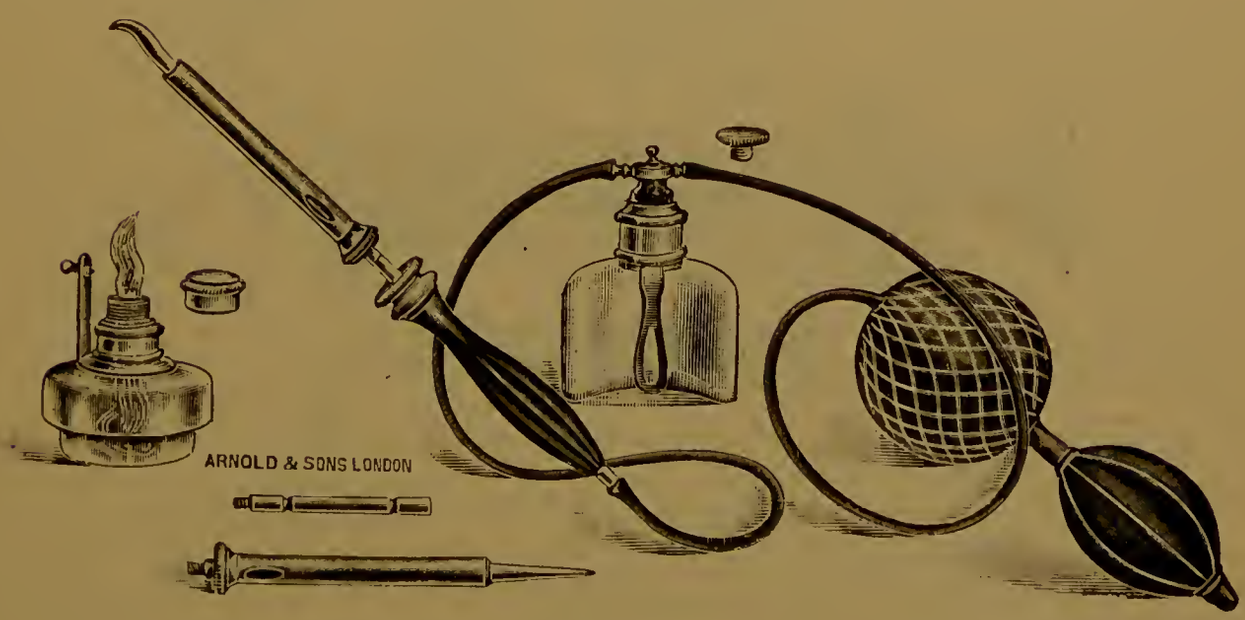


Fig. 460.

Thermo Cautery, with two platinum burners, spirit lamp, etc., in leather case, complete, Fig. 460...	4	15	0

Tracheotomy, Laryngeal Instruments, &c.

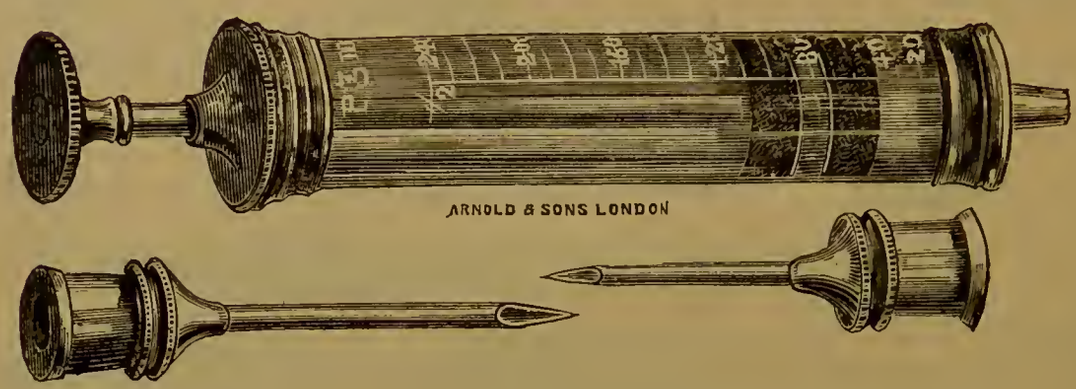


Fig. 461.

	£	s.	d.
Intra-Tracheal Syringe, with Arnold & Sons' patent oil piston, and two needles, for calves and lambs, in morocco leather case, complete, Fig. 461 ... ... ½ oz.	1	2	6

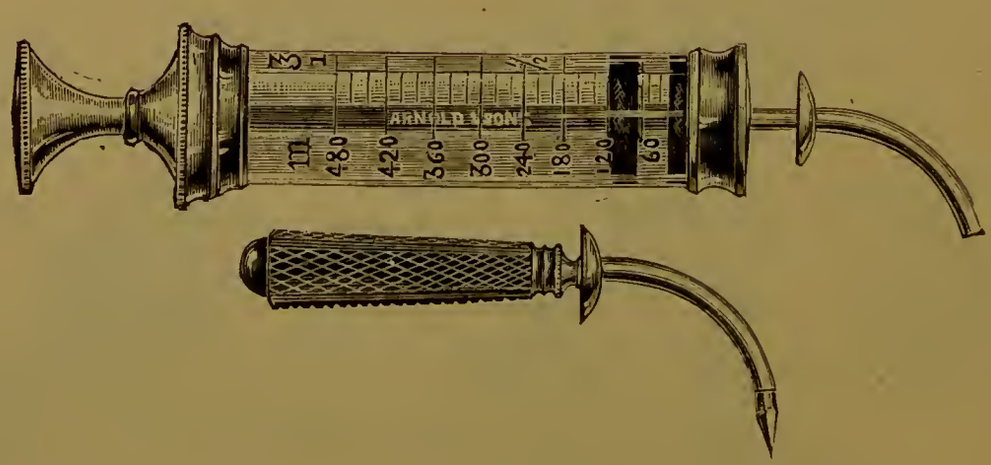


Fig. 462.

	£	s.	d.
Intra-Tracheal Syringe (Poulton's) with Arnold & Sons' patent oil piston and trocar and cannula, in morocco leather case, complete, Fig. 462 ... ... 1 oz.	1	10	0

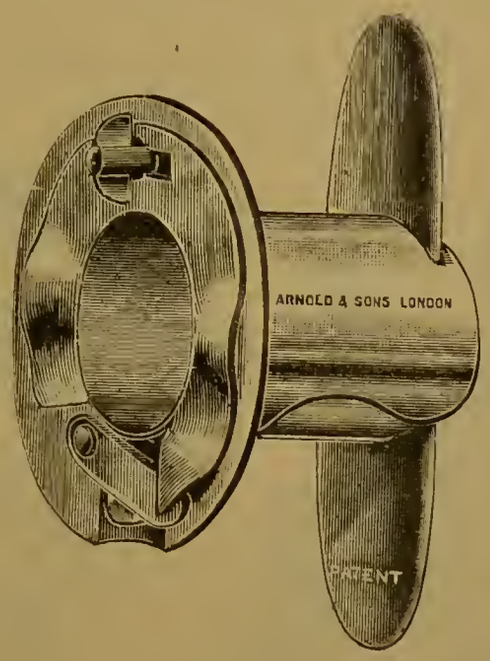


Fig. 463.

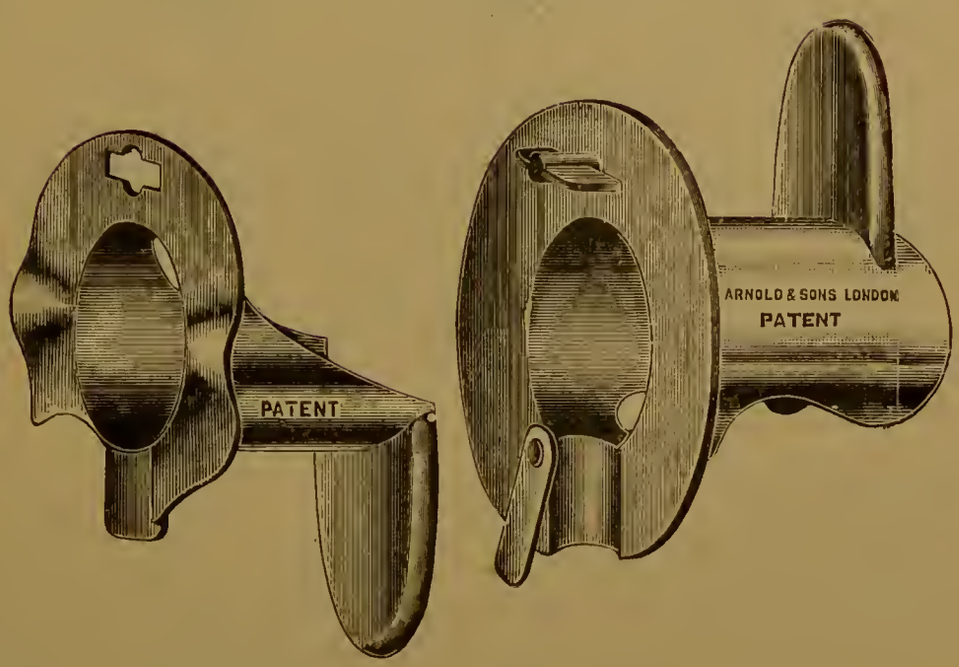


Fig. 464.

		£	s.	d.
Tracheotomy Tube (Coleman's), Patented, self-retaining, various sizes, Figs. 463 and 464	each	0	17	6
Ditto ditto ditto fitted with gauze cap or plug	ditto	1	0	0

Extract from "VETERINARY RECORD," May 20th, 1899.

The above illustration represents a new form of tracheotomy tube, which Messrs. ARNOLD AND SONS have made for me, and one which I have found to answer every purpose.

Its advantages are simplicity, lightness and effect. It is made in two parts as shown in drawing, and is so easy of insertion that it can be removed and cleaned by the most ignorant. It is also provided with flanges which effectually keep the growth of proud flesh back, which generally accumulates more or less and causes trouble.

It is made in three different sizes in length 1, 1¼, and 1½ ins., and two different sizes in bore, 1 and 1¼ ins., and of a metal which does not corrode or oxidise.

The manufacturers and patentees are Messrs ARNOLD & SONS, West Smithfield, London.

JOHN COLEMAN, M.R.C.V.S.

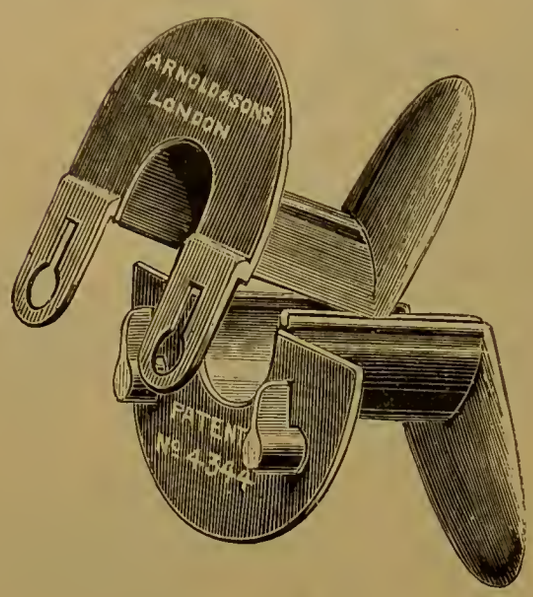


Fig. 465.

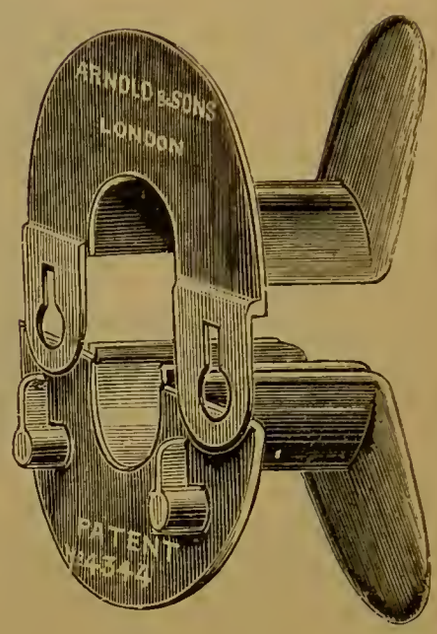


Fig. 466.

	£	s.	d.
Tracheotomy Tube, "Reliance" (Patented), new Army pattern, four sizes, Figs. 465 and 466 ... ... each	0	15	0
Ditto ditto ditto fitted with gauze cap or plug ditto	0	17	6

Extract from "THE VETERINARIAN."

This Tracheotomy Tube—a modification of the tubes of Field and Jones'—is made and patented by Messrs. ARNOLD & SONS, West Smithfield, London, and possesses the following advantages: First—A sliding arrangement whereby the two halves must necessarily be held securely together. Second—Only one shield is required, which considerably reduces the weight of the tube. Third—Rounded on flanged lips, which cannot irritate the trachea. Fourth—Simple and secure fastening, which renders accidental unfastening impossible. Fifth—Constructed throughout of a metal which does not corrode or oxidise.

Extract from "THE VETERINARY JOURNAL."

Tracheotomy tubes hitherto constructed have been difficult to insert, and insecure when introduced, This tracheotomy tube is a modification of Field and Jones', but possessing several important advantages. It is made and patented by Messrs. ARNOLD & SONS, of West Smithfield, London, and we append a copy of a letter received:—

"DEAR SIRS,—I am much pleased with your new Tracheotomy Tube. Its simple construction allows it to be easily introduced, keeps well in position, light, and, besides, does not cause so much pain in a freshly operated wound. I think you have made quite a first-class instrument, and one I should certainly purchase for myself.

"I would suggest your bringing it before the notice of the profession."

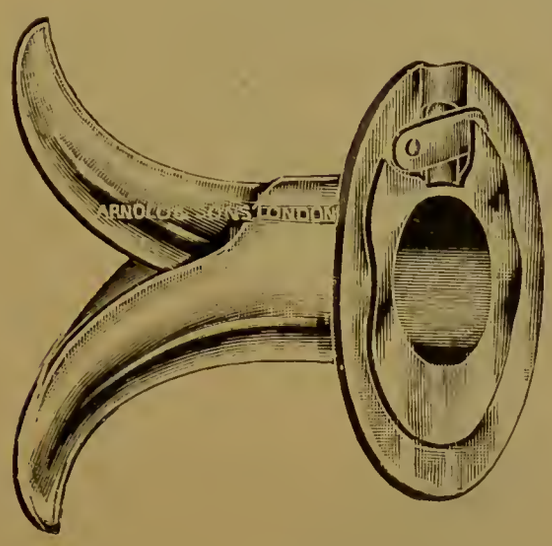


Fig. 467.

Fig. 468.

	£	s.	d.
Tracheotomy Tube (Field's), self-retaining, four sizes, Fig. 467 each	0	12	6
Ditto ditto ditto ditto with gauze cap or plug ditto	0	15	0
Ditto ditto ditto ditto white metal, three sizes ditto	0	8	6
Ditto ditto ditto ditto vulcanite	0	13	6
Ditto ditto (Nelson's), tin, three sizes ... ... each	0	4	0
Ditto ditto ditto plated ditto ... ... ditto	0	10	6
Ditto ditto for Dogs, &c., plated, three sizes, Fig. 468 each	0	10	6
Ditto ditto ditto vulcanite ditto 7s., 8s., and	0	9	0

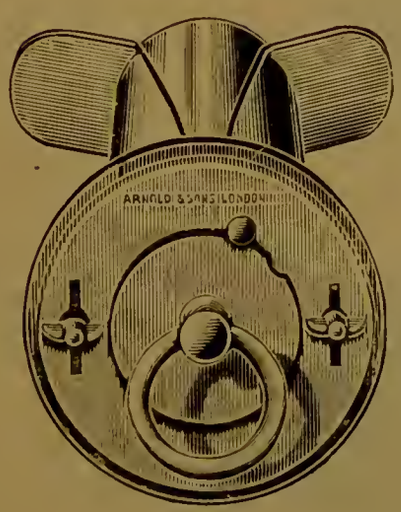


Fig. 469.

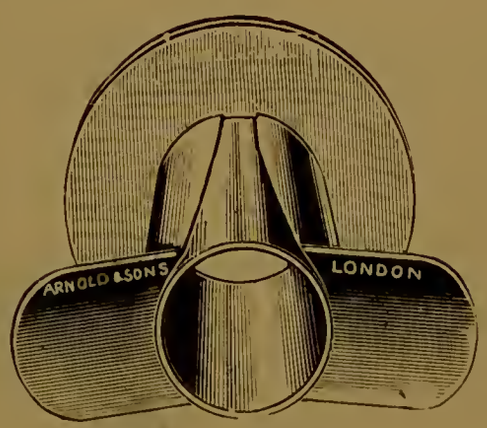


Fig. 470.

Tracheotomy Tube (Arnold & Sons' improved), fitted with plug, four sizes, Figs. 469 and 470 ... ... each	1	5	0

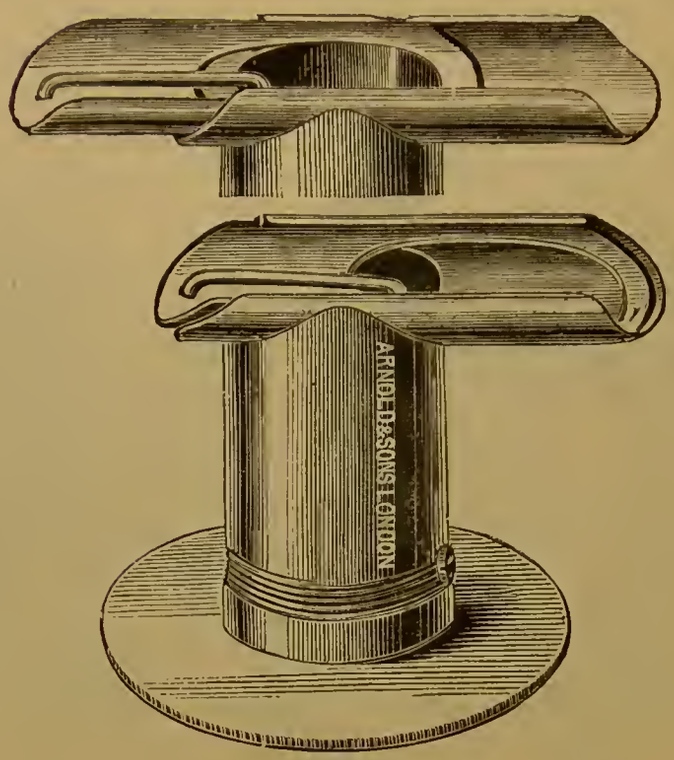


Fig. 471.

	£	s.	d.
Tracheotomy Tube (Thompson's), Patented, Fig. 471	1	5	0

Extract from "THE VETERINARIAN."

The annexed is an illustration of a new Tracheotomy Tube invented by Mr. R. C. Thompson, M.R.C.V.S., Doncaster.

Its chief advantages are its simplicity and its self-locking arrangement, no separate pieces being required after it is once introduced into the trachea. Mr. Thompson has used it for two years, and in every case found it to act satisfactorily.

Messrs. ARNOLD & SONS, of West Smithfield, are the sole agents.

Fig. 472.

Tracheotomy Tube, Fig. 472	0	4	0
Ditto ditto with straps, complete	0	6	0

Fig. 473.

Tracheotomy Tube (Gowing's), Vulcanite, Fig. 473	0	7	6

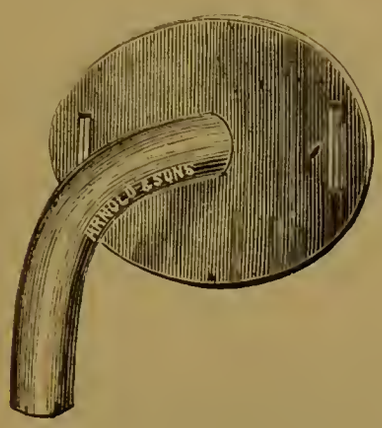


Fig. 474.

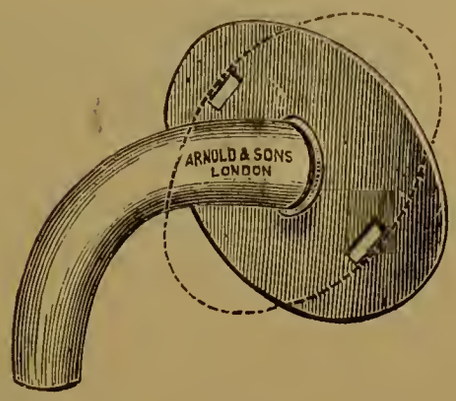


Fig. 475.

	£	s.	d.
Tracheotomy Tube, white metal, Fig. 474, three sizes, 3s. 6d., 4s. and	0	4	6
Ditto ditto ditto with revolving shield, three sizes, Fig. 475 ... ... each	0	6	6

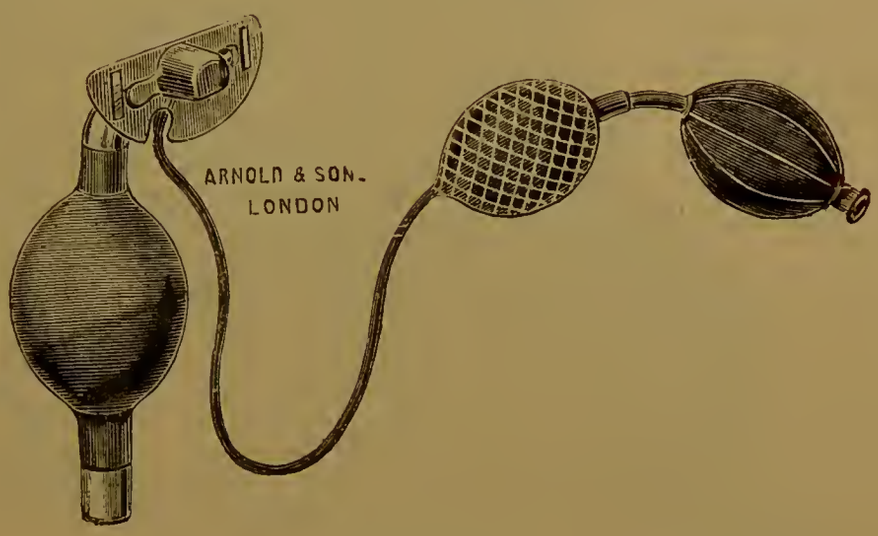


Fig. 476.

Tracheotomy Tampon-Cannula, with inflating bellows, complete Fig. 476	1	10	0

Fig. 477.

Tracheotomy Forceps (Spooner's), regulating, for taking out any size piece of cartilage, Fig. 477	0	12	6

Fig. 478.

Tracheotomy Hook, blunt or sharp, ebony handle, Fig. 478 ...	0	2	6
Ditto ditto ditto aseptic, forged entirely out of solid steel, nickel-plated	0	3	0

Fig. 479.

	£	s.	d.
Tracheotomy Hook, double, blunt or sharp, ebony handle, Fig. 479	0	5	0
Ditto ditto ditto ditto aseptic, forged entirely out of solid steel, nickel-plated	0	5	6

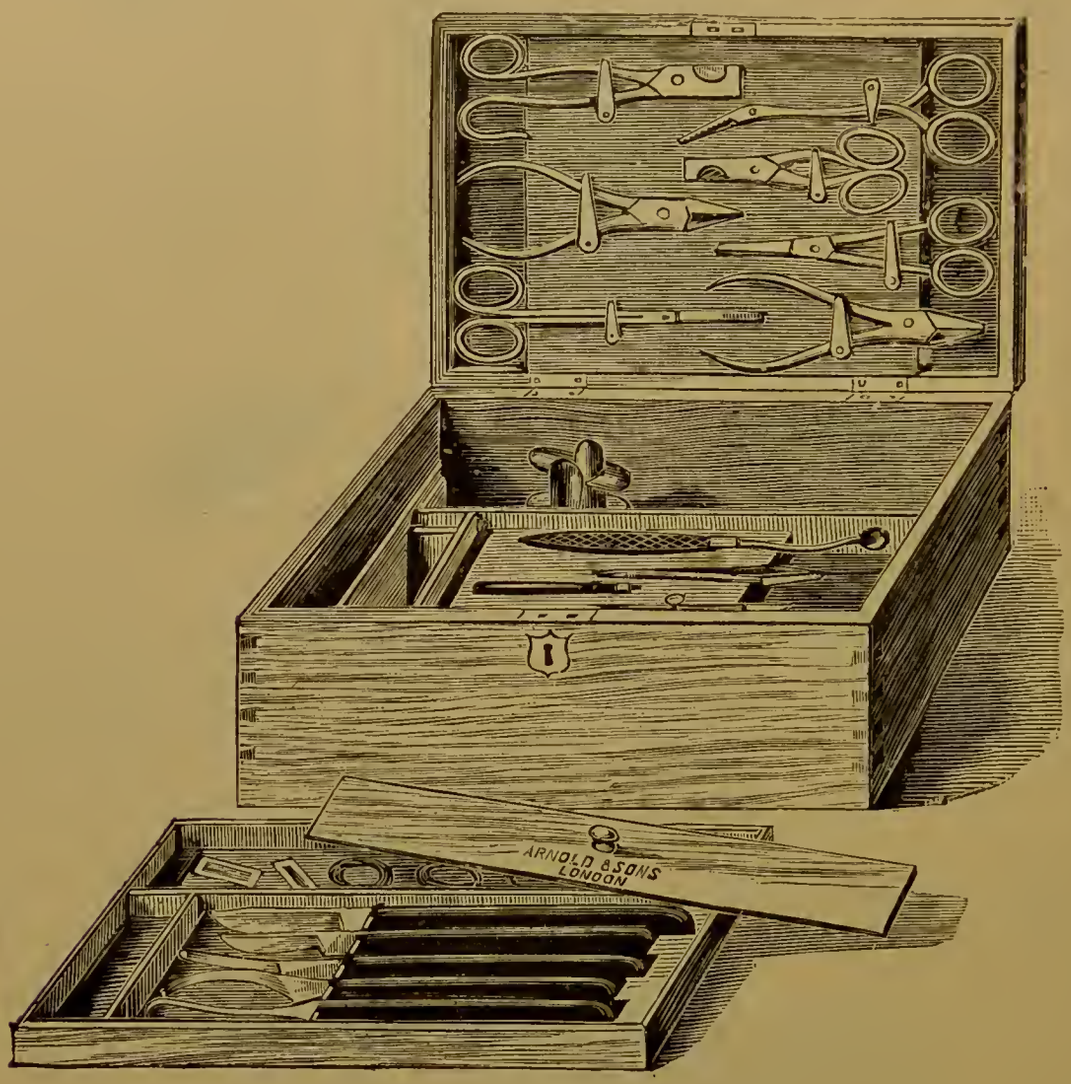


Fig. 480.

Tracheotomy Instruments, in mahogany case, Fig. 480, containing:—

Scalpel, chequered ebony handle.
Dissecting Forceps.
Ditto Scissors.
Suture Needle and Holder (Fleming's).
Probe-pointed Knife, chequered ebony handle.
Sharp Hook, chequered ebony handle.
Nicking Knife for Cartilage, &c., chequered ebony handle.
Large Rowelling Bistoury.
Small ditto Scissors.
Tracheotomy Forceps, regulating.
Scissors, curved or flat.
Spencer Wells' large angular Forceps.
Sharp-pointed curved Bistoury.
Tracheotomy Scoop or Spoon.
Two pairs plated Plyers.
Two-edged Knife, at acute angle.
1½ dozen assorted Suture Needles.
Two hanks plated Wire.
Space for Tracheotomy Tubes, &c.

The above set, complete 5 5 0

Laryngeal Instruments (Raymond's), for treatment of roaring, containing—

Long Curved Scissors.
Laryngotomy Tube and Tampon.
Pair plated Retractors in handles.
Long Laryngeal Knife.
Short Curved ditto.
Large Scaletang Scapel.
Vulsellum Forceps, with rack.
Caustic Probe.
Hook.
Spring Forceps.
Cross Action Forceps.

	£	s.	d.
The above set, in mahogany case, complete	6	0	0

Laryngeal Instruments (Major Smith's), for treatment of roaring, containing—

Laryngeal Forceps.
Ditto Needle.
Ditto Scissors, curved.
Laryngeal Forceps, full curved.
Ditto Mirror.

The above set, in leather case, complete	2	15	0

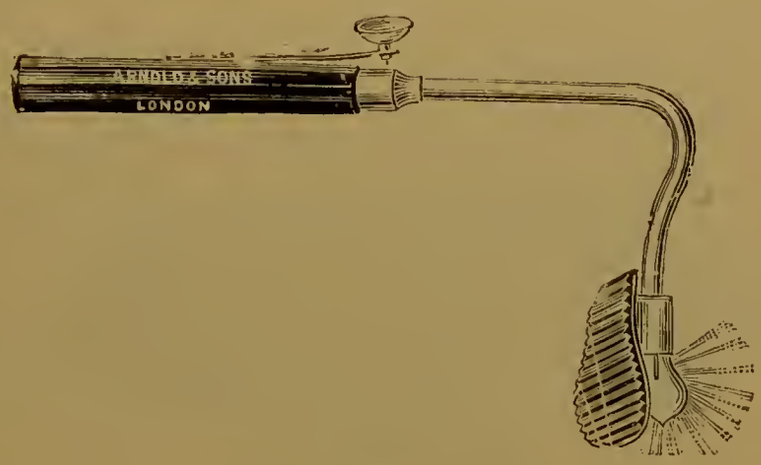


Fig. 481.

Laryngeal Electric Lamp (Raymond's), in leather case, complete, Fig. 481	2	2	0
Battery for ditto ditto	4	0	0

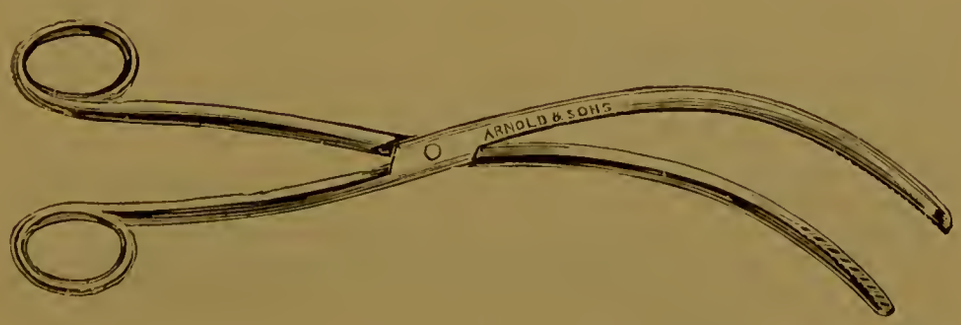


Fig. 482.

Throat Forceps, for dogs, &c., Fig. 482	0	6	6

Fig. 483.

	£	s.	d.
Throat Forceps, for dogs, &c., cross action, to open laterally, or antero-posteriorly, Fig. 483	0	7	6

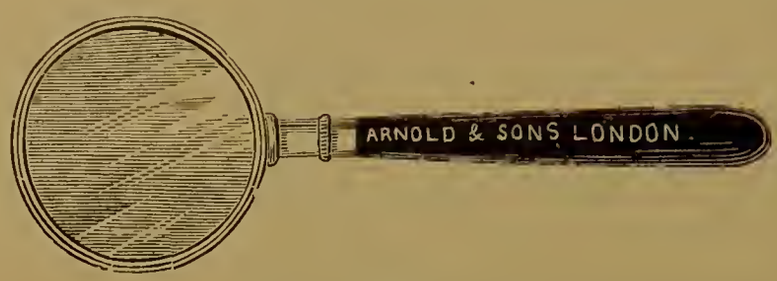


Fig. 484.

Laryngeal or Nasal Mirror, Fig. 484	0	10	0
Ditto ditto with round opening	0	12	0

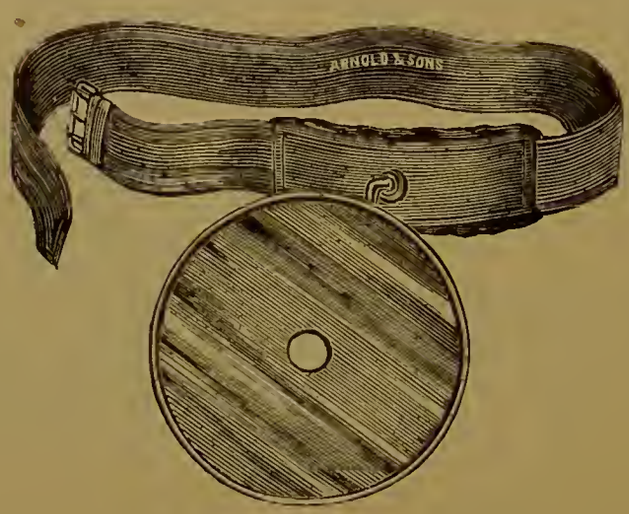


Fig. 485.

Laryngeal or Nasal Mirror (Purves'), with ball and socket movement and head band, Fig. 485	0	15	0
Ditto ditto ditto ditto with handle	0	16	6

Fig. 486.

Laryngeal Mirror, for dogs, &c., with adjustable handle, Fig. 486 ...	0	4	6

Fig. 487.

	£	s.	d.
Laryngeal Mirror, for dogs, &c., in fixed aseptic metal handle, three sizes, Fig. 487 ... ... each	0	4	6

Fig. 488.

Laryngeal Brush, for dogs, &c., on wire stem, Fig. 488	0	0	4

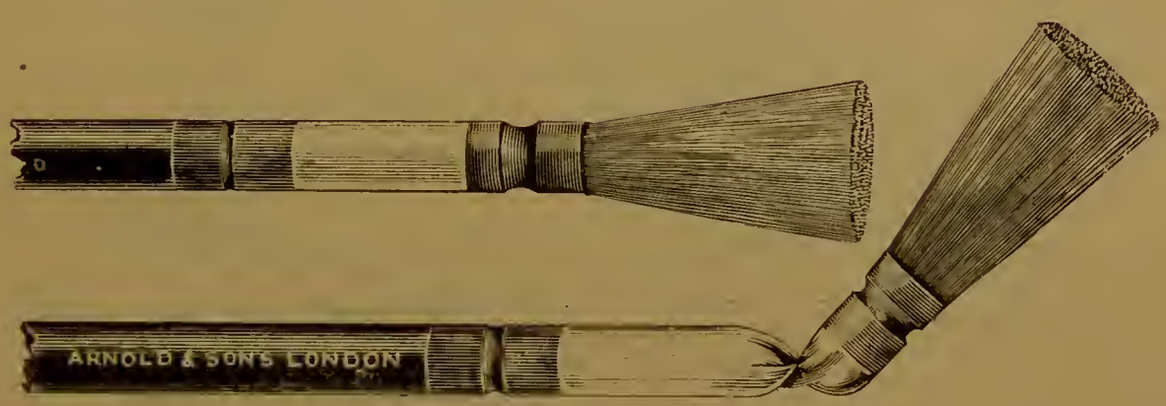


Fig. 489.

Throat Brushes, for dogs, &c., straight or curved, on cedar stems, Fig. 489 ... ... each	0	0	3

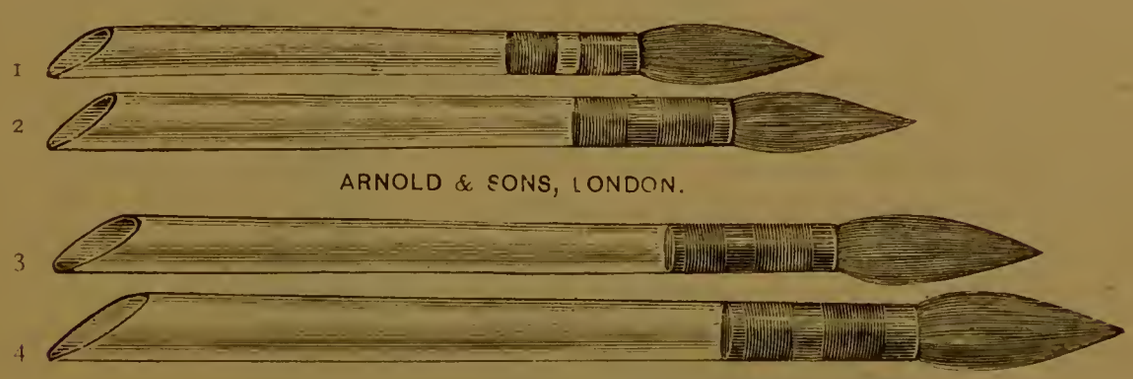


Fig. 490.

Camel Hair Brushes, Fig. 490	No. 1, per doz.	0	0	7
Ditto ditto	No. 2, ditto	0	0	9
Ditto ditto	No. 3, ditto	0	1	0
Ditto ditto	No. 4, ditto	0	1	3

Fig. 491.

Fig. 492.

	£	s.	d.
Tongue Depressor (Frankel's), for dogs, &c., plated, in ebony handle, Fig. 491	0	2	6
Ditto ditto folding, plated, Fig. 492	0	3	6

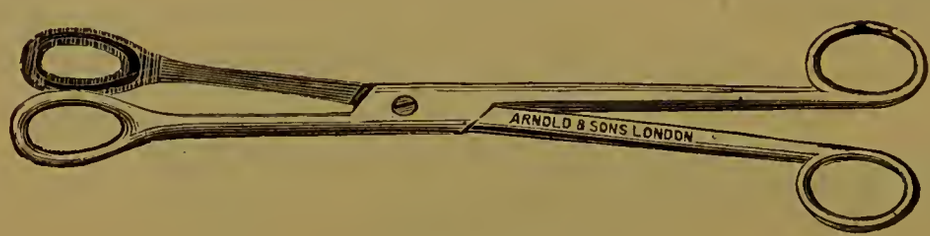


Fig. 493.

Tongue Forceps, for dogs, &c., with fenestrated blades, Fig. 493 ...	0	9	0

Fig. 494.

Laryngeal Spray, for dogs, &c., vulcanite, with hand bellows, two sizes, Fig. 494 ... ... 2s. 6d. and	0	3	6

Fig. 495.

	£	s.	d.
Laryngeal Spray, for dogs, &c., flexible tube, with hand bellows and bottle, complete, Fig. 495 ... ... small size	0	4	0
Ditto ditto ditto ... ... large size	0	7	6

The above engraving shows an improved form of Spray Producer, which, having a pliable tube, can be readily adjusted to any required angle.

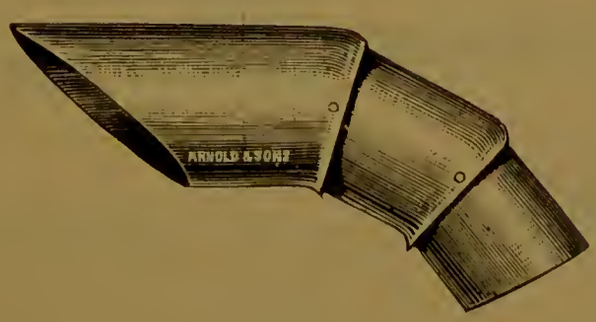


Fig. 496.

Finger Guard, jointed, nickel-plated, Fig. 496	0	5	0

Nasal and Aural Instruments.

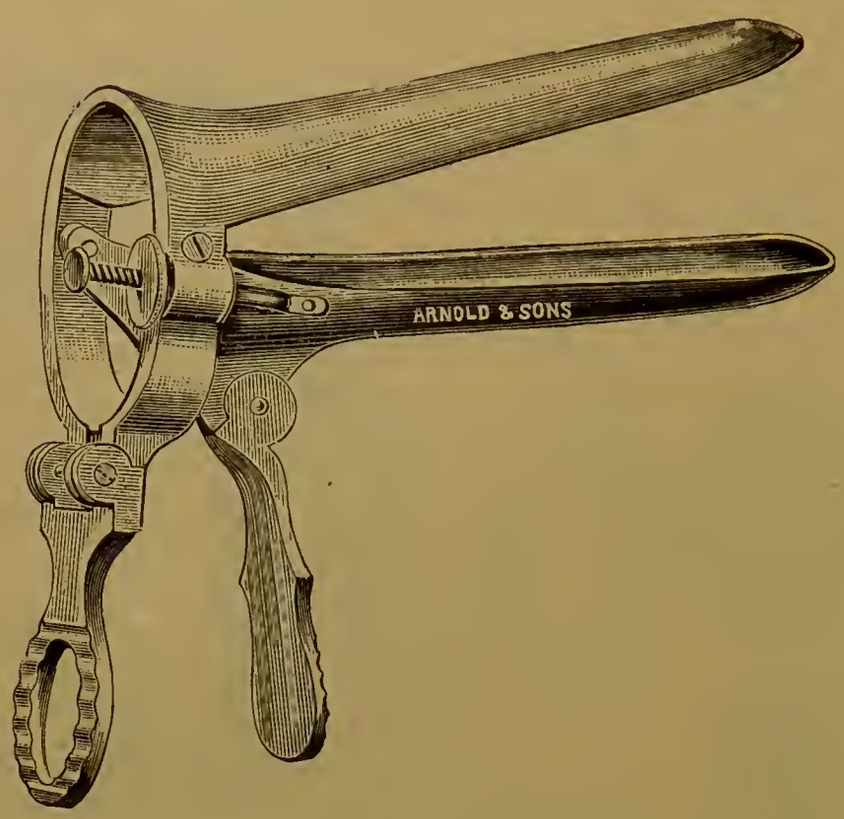


Fig. 497.

	£	s.	d.
Nasal Speculum (Cusco's), for horse, Fig. 497	0	15	0

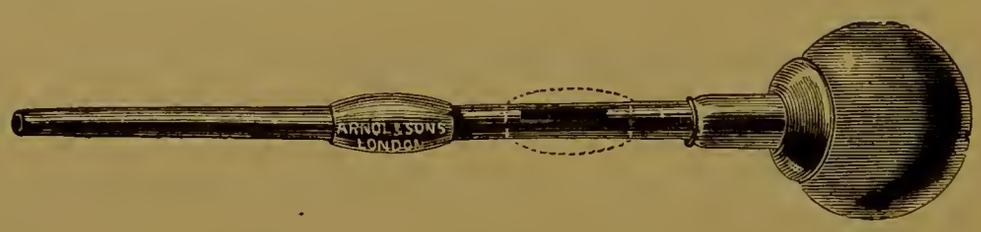


Fig. 498.

Nasal Insufflator (Allman's), Fig. 498	0	6	0

Fig. 499.

Nasal Insufflator (Sheather's), Fig. 499	0	12	6

Fig. 500.

	£	s.	d.
Nasal Douche (Rey's), japanned tin, for horse, Fig. 500	0	10	6

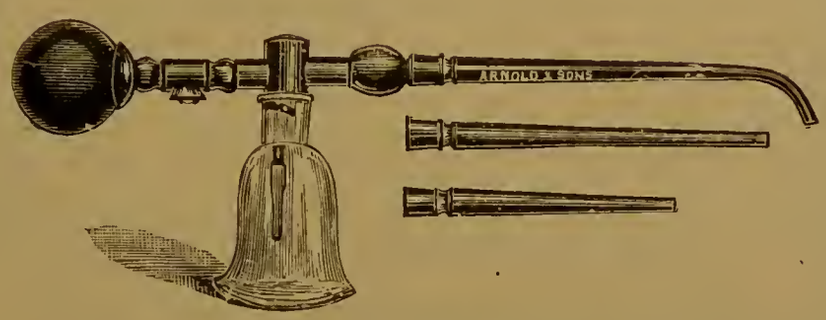


Fig. 501.

Insufflator (Kabierski's), for dogs, &c., with two straight and one curved mounts, Fig. 501	0	9	0

Fig. 502.

Nasal or Aural Insufflator, for dogs, &c., glass, with India-rubber tubing, Fig. 502	0	2	6

Fig. 503.

Nasal or Aural Insufflator (Morison's), for dogs, &c., glass, with India-rubber tubing and ball, Fig. 503	0	4	0

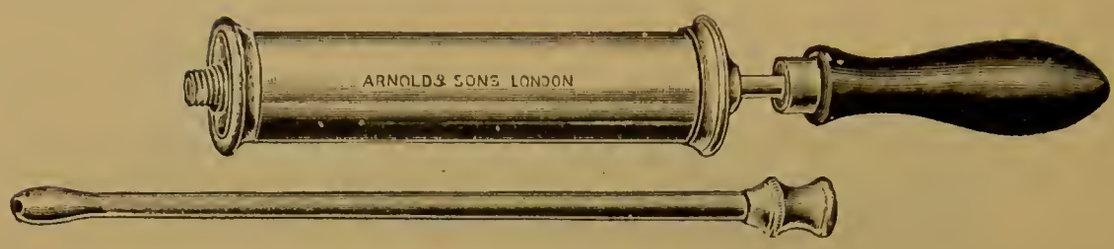


Fig. 504.

	£	s.	d.
Nasal Syringe (Leggett's), brass, with flexible metal pipe, Fig. 504	0	9	6

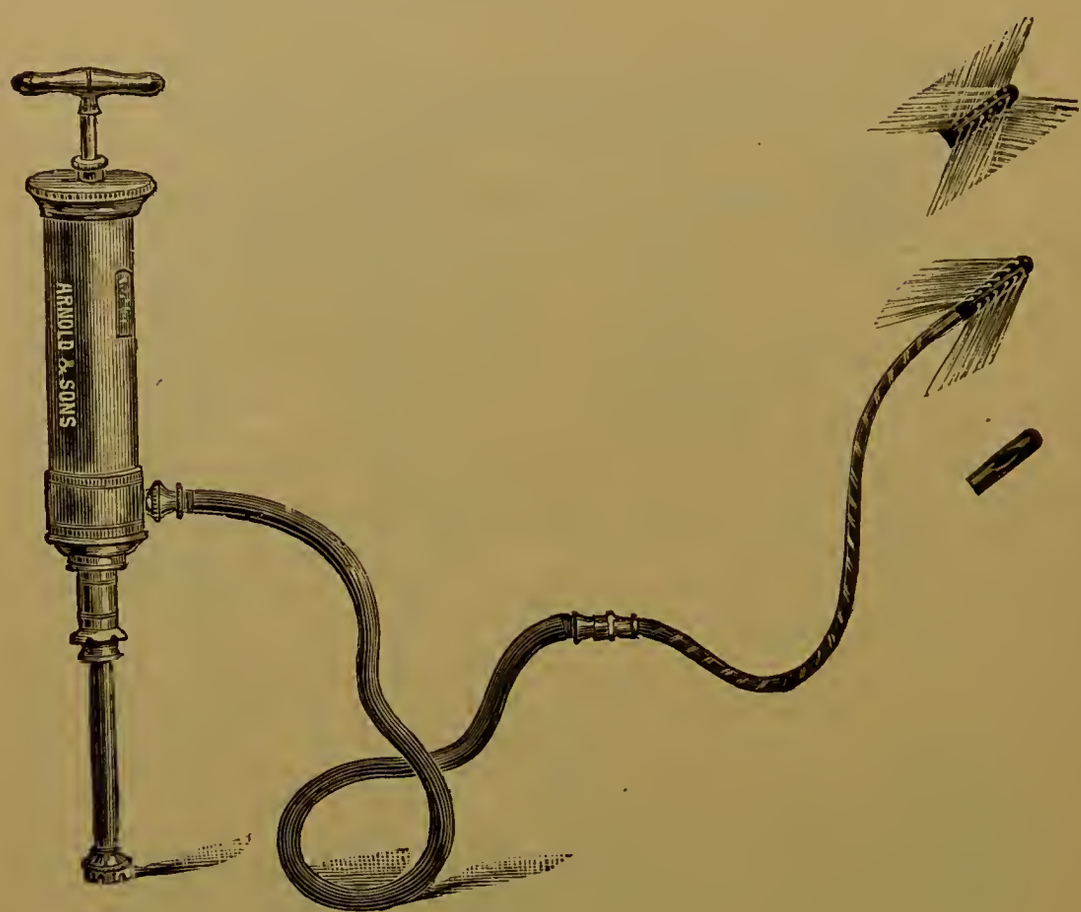


Fig. 505.

Nasal Irrigateur (Gray's), with three mounts, for using with enema pump	0	18	6
Ditto ditto ditto fitted with Winton's pump, complete, Fig. 505	2	2	0

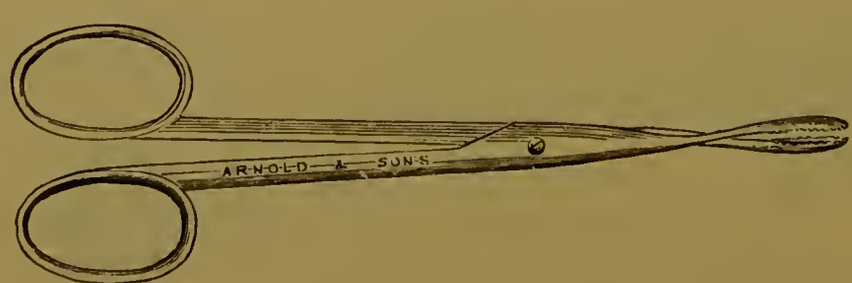


Fig. 506.

Nasal Polypus Forceps, cross action, straight blades, Fig. 506 ...	0	5	6
Ditto ditto ditto with aseptic take-off joint	0	6	0

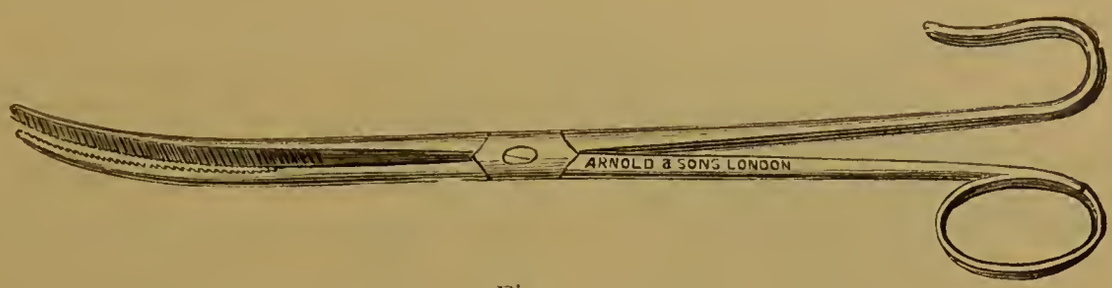


Fig. 507.

	£	s.	d.
Nasal Polypus Forceps, curved blades, Fig. 507	0	6	0

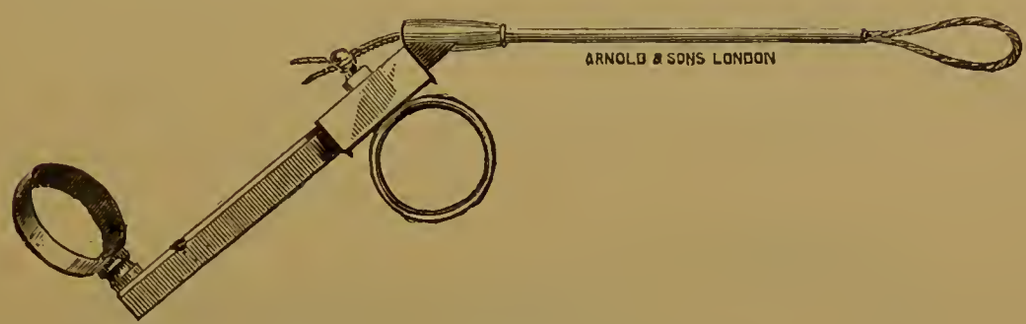


Fig. 508.

Nasal Polypus Snare (Blake's), for dogs, &c., Fig. 508	0	8	6

Fig. 509.

Nasal Saw (Woake's), for dogs, &c, ebony handle, Fig. 509 ...	0	4	6

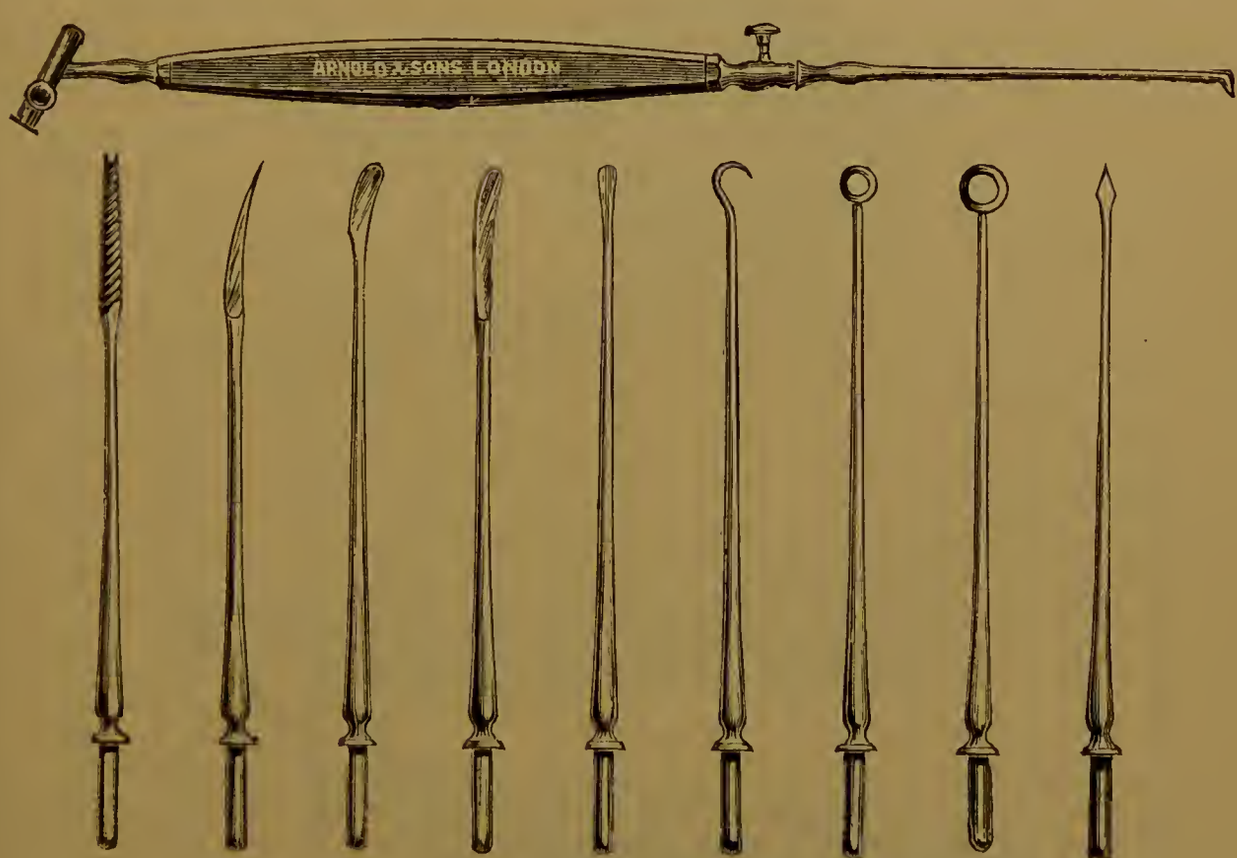


Fig. 510.

Aural Instruments (Politzer's), for dogs, &c., set of 10 fitting one handle, in case, complete, Fig. 510	2	2	0

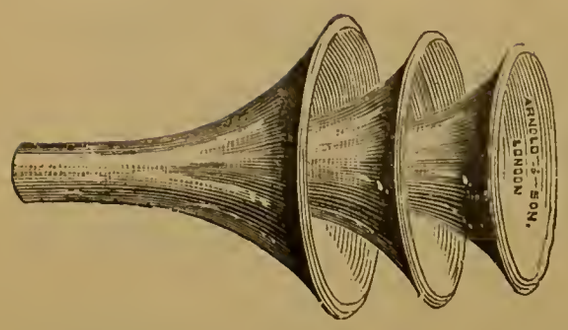


Fig. 511.

Fig. 512.

	£	s.	d.
Aural Speculum (Arnold & Sons'), for dogs, &c., improved, plated, three sizes, Fig. 511 ... ... each	0	4	6
Ditto (Stewart's), for dogs, &c., with spring wire handle, Fig. 512	0	6	6

Fig. 513.

Aural Speculum (Kramer's), for dogs, &c., plated, Fig. 513 ...	0	8	0
Ditto ditto ditto ditto aluminium	0	9	0

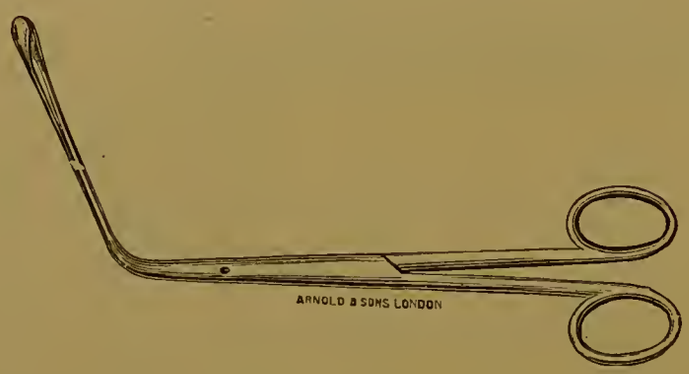


Fig. 514.

Aural Forceps (Toynbee's), angular, for dogs, &c., Fig. 514 ...	0	5	6

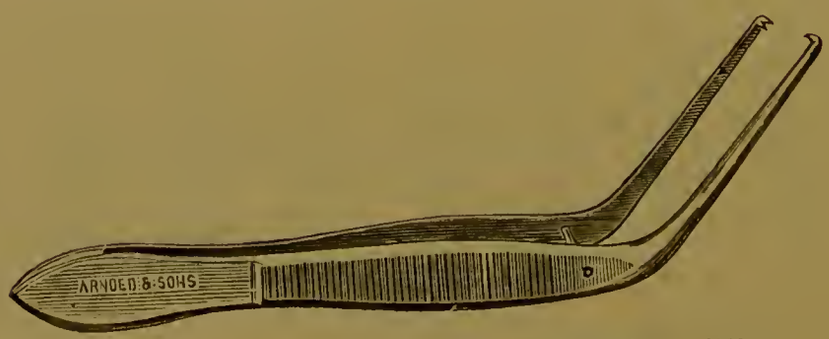


Fig. 515.

Aural Forceps (Wilde's) for dogs, &c., Fig. 515	0	4	0

Fig. 516.

	£	s.	d.
Aural Forceps (Purves'), for dogs, &c., with twisted hook, Fig. 516	0	5	6

Fig. 517.

Aural Scoop (Imray's), for dogs, &c., with fenestrated end, Fig. 517	0	2	6

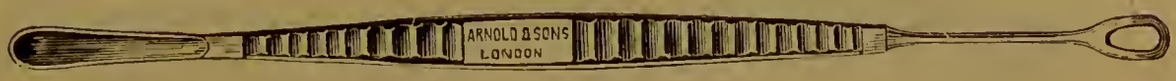


Fig. 518.

Aural Scoop (Imray's), for dogs, &c., double, steel, Fig. 518 ...	0	5	0

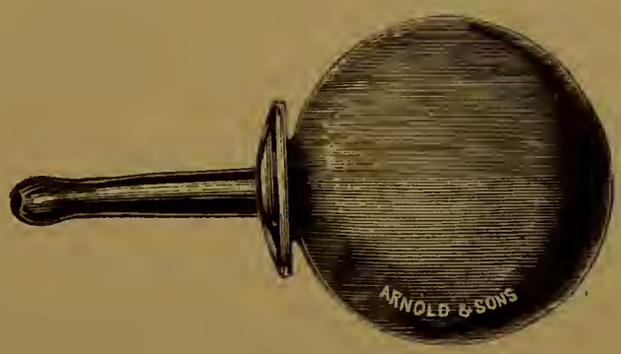


Fig. 519.

Aural Syringe, for dogs, &c., with ivory pipe, Fig. 519	0	2	0

Fig. 520.

Aural Syringe, brass, for dogs, &c., Fig. 520	1 oz.	0	5	6
Ditto ditto ditto	2 oz.	0	7	0
Ditto ditto ditto	3 oz.	0	8	0
Ditto ditto ditto	4 oz.	0	9	0

If fitted with 3 rings, 1s. each extra.

Dental Instruments.

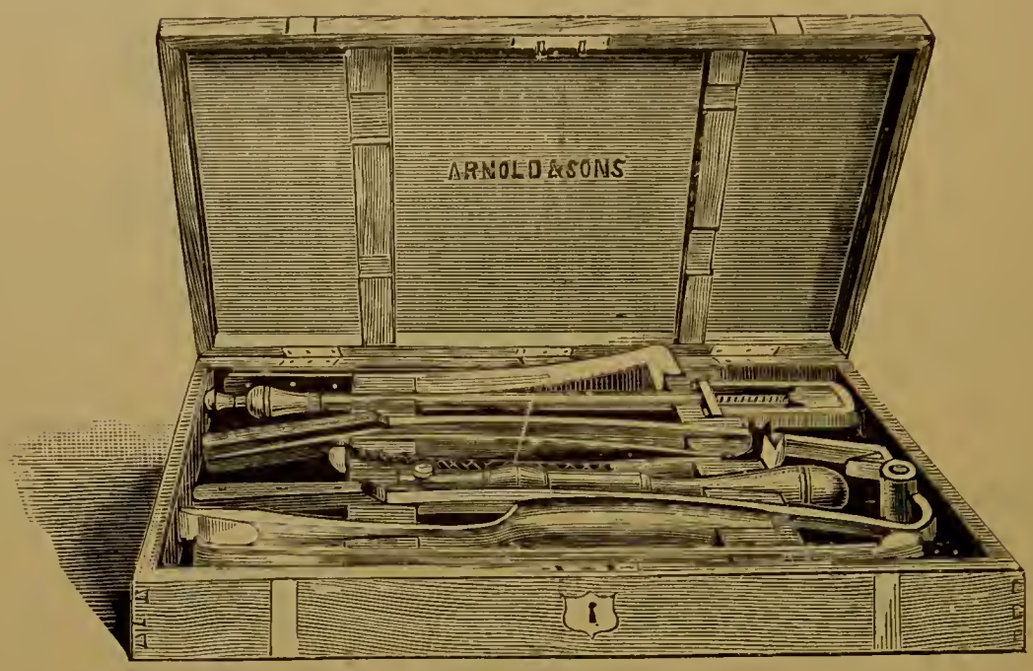


Fig. 521.

Dental Instruments (Gowing's), Fig. 521, containing—

Tooth Chisel, sliding.	Repeller.
Ditto Chisel, small.	Tooth Rasp, Jointed.
Ditto Forceps.	Gum Lancet, large.
Lateral Repeller.	

	£	s.	d.
The above set, in superior polished oak case, complete	7	7	0
Dental Instruments, complete set, in polished oak case, brass cornered, as supplied to Her Majesty's Government	21	0	0

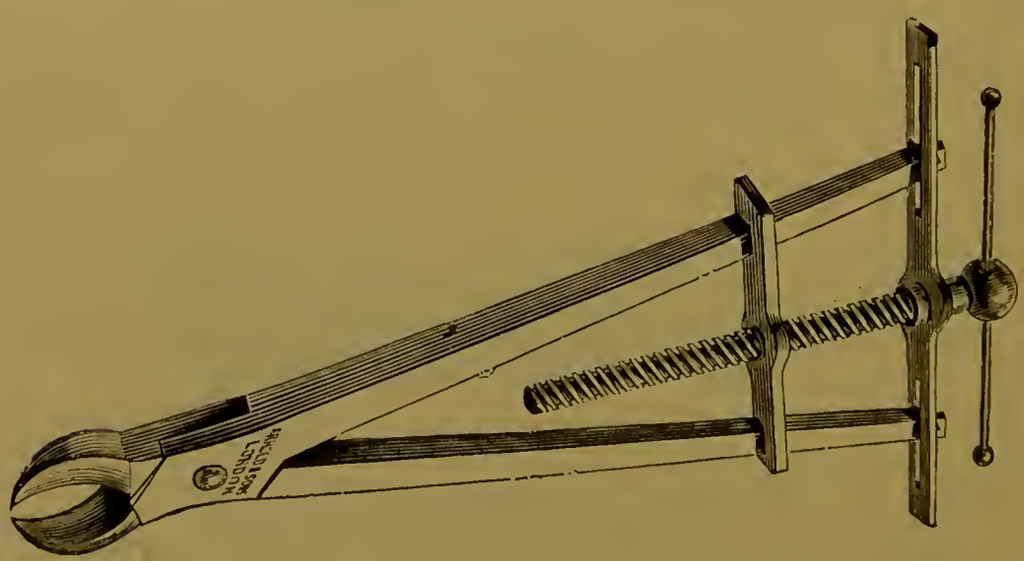


Fig. 522.

Tooth Shears (Arnold & Sons'), for cutting off extra growths, Fig. 522	4	10	0

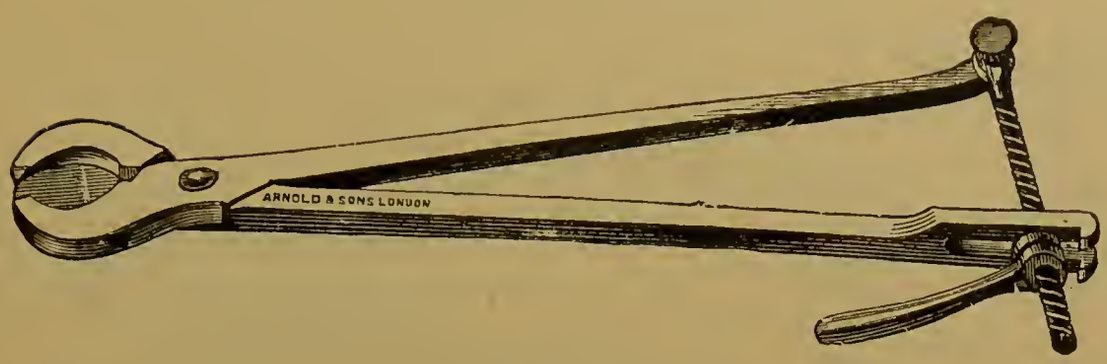


Fig. 523.

	£	s.	d.
Tooth Shears (Prof. Robertson's), Fig. 523	3	15	0

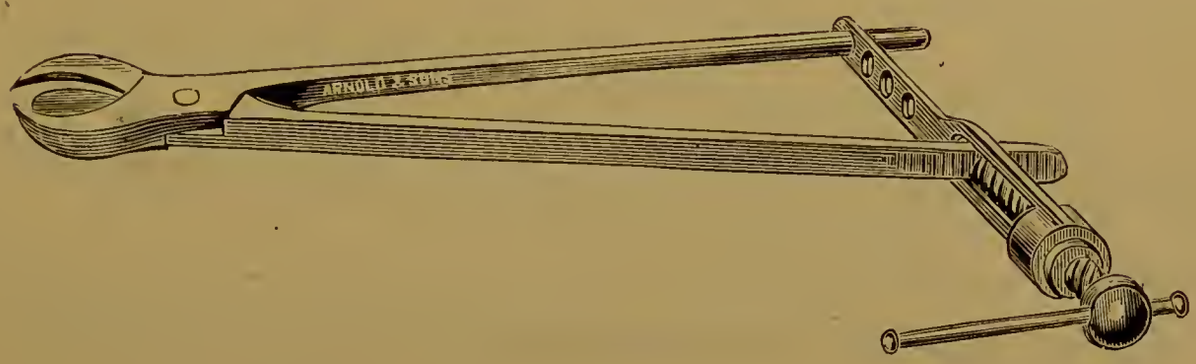


Fig. 524.

Tooth Shears (Thompson's), Fig. 524	3	7	6

Fig. 525.

Tooth Shears (Squair's), with circular joints, Fig. 525	4	15	0

Extract from "VETERINARY RECORD," May 27th 1899.

Messrs. Arnold & Sons, of West Smithfield, London, have made, at my suggestion, an improved form of shears for excising the teeth. The advantages I claim for this invention over the old-fashioned chisel and mallet are that the operation is more humane and at the same time is done instantaneously. The construction of the joints, as shewn in the engraving, is the principal feature of the instrument, being so adapted as to possess immense leverage and strength. There is no necessity to cast the animal, as the operation is done in an instant. I have used the instrument, and find it act most satisfactorily, and possesses far greater power of incision than Thompson's or any shears at present in use.—I am, yours, CHAS. A. SQUAIR, M.R.C.V.S., Reigate.

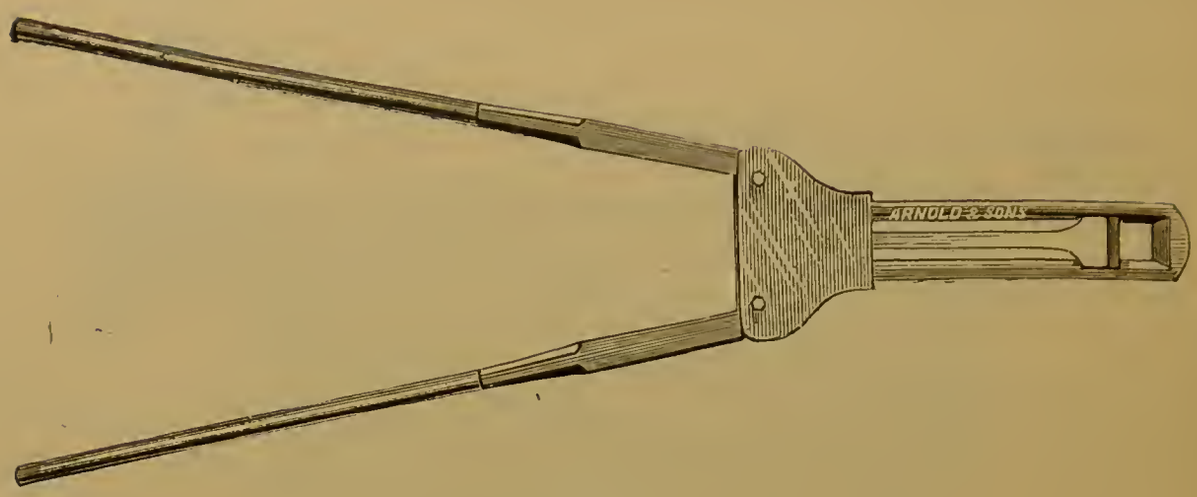


Fig. 526.

	£	s.	d.
Tooth Shears (Crawford's), Fig. 526	3	5	0

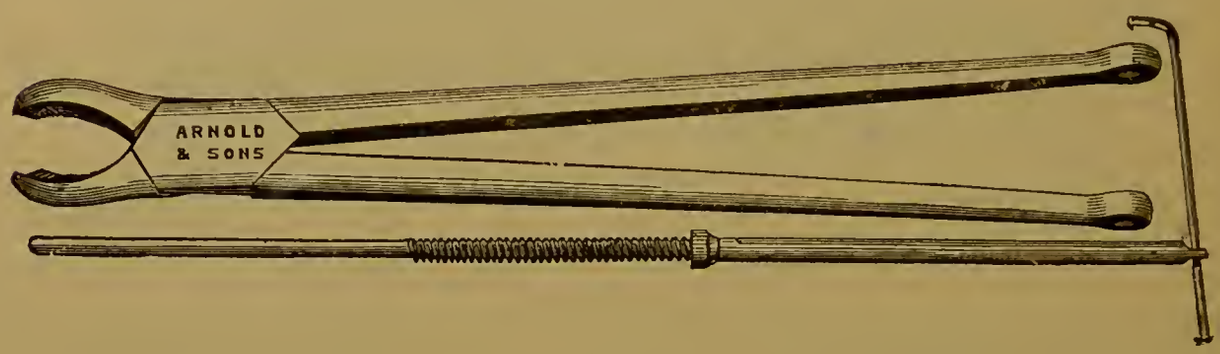


Fig. 527.

Tooth Forceps (Gowing's), for molars, Fig. 527	2	15	0

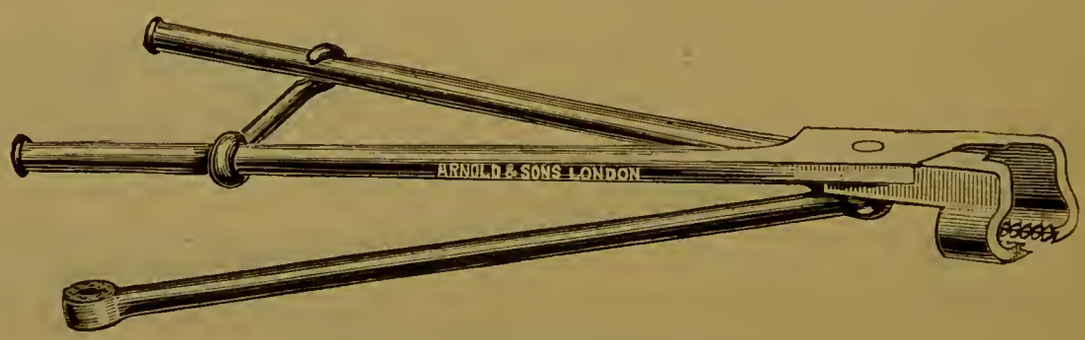


Fig. 528.

Tooth Forceps (Santy's), for molars, with lever, Fig. 528	2	0	0

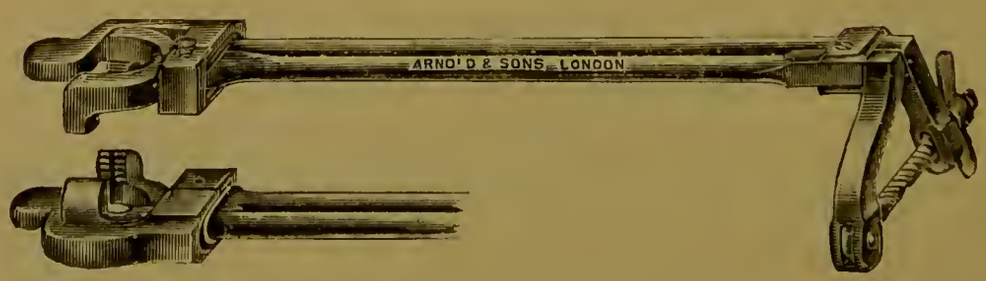


Fig. 529.

Tooth Forceps, Universal, for molars, Fig. 529	2	5	0

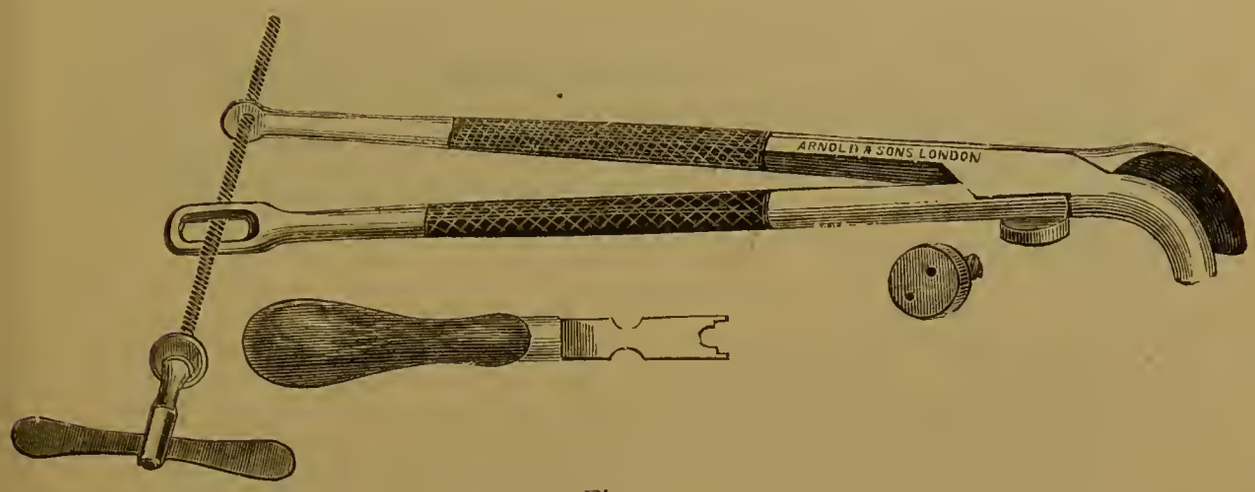


Fig. 530.

	£	s.	d.
Tooth Forceps (Prof. Robertson's improved), for molars, Fig. 530 ...	3	0	0

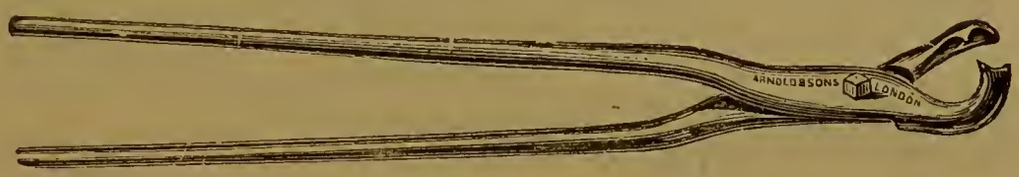


Fig. 531.

Tooth Forceps (Prof. Robertson's), Fig. 531	1	10	0

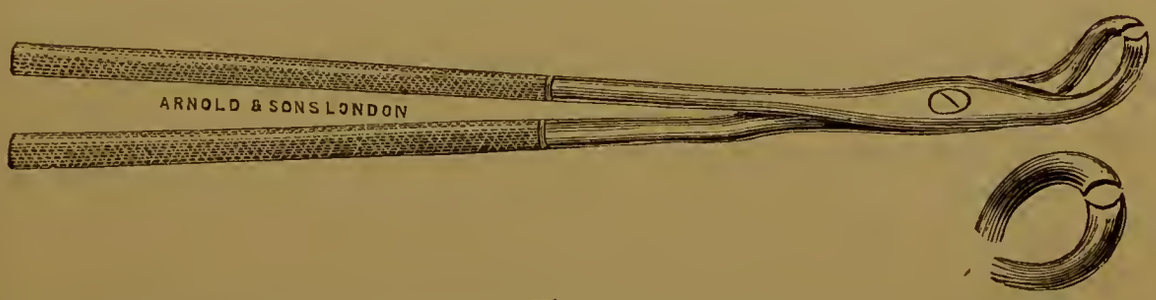


Fig. 532.

Tooth Forceps (Prof. Robertson's), for stumps, Fig. 532	1	10	0

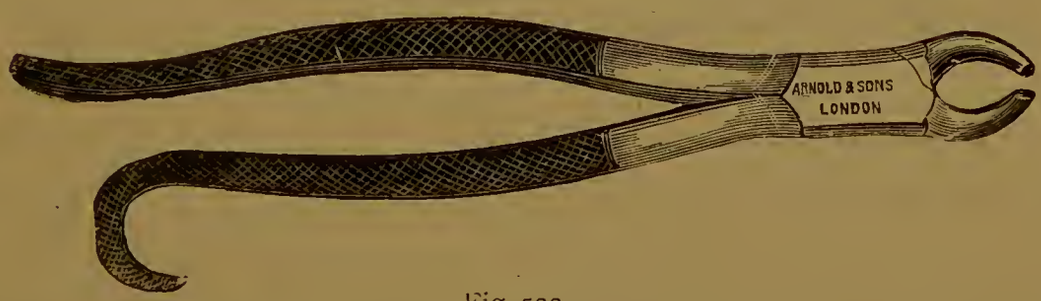


Fig. 533.

Tooth Forceps, American pattern, Fig. 533	0	15	0

Fig. 534.

Tooth Forceps (Prof. Pritchard's), Fig. 534	0	8	0

Fig. 535.

	£	s.	d.
Tooth Forceps (Gowing's), Fig. 535, three sizes, 10, 11, and 12 inches each 10s. 6d., 12s. 6d., and	0	15	0

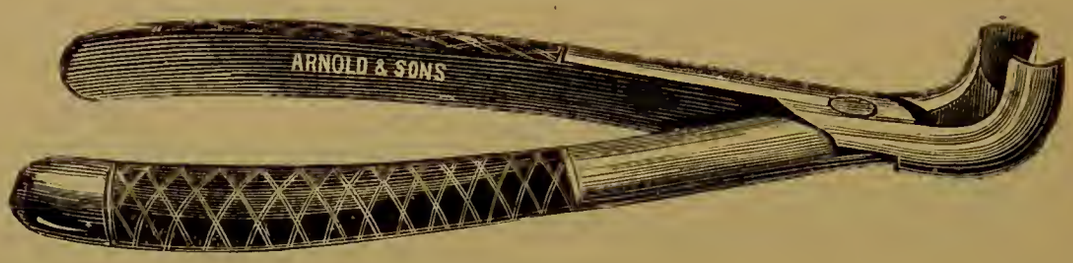


Fig. 536.

Tooth Forceps (Arnold & Sons'), Fig. 536, three sizes, 10, 11 and 12 inches ... ... each 10s. 6d., 12s. 6d., and	0	15	0

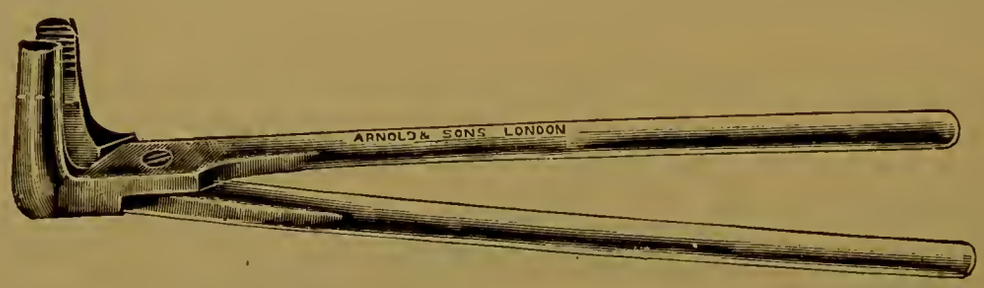


Fig. 537.

Tooth Forceps, improved, Fig. 537	0	15	0

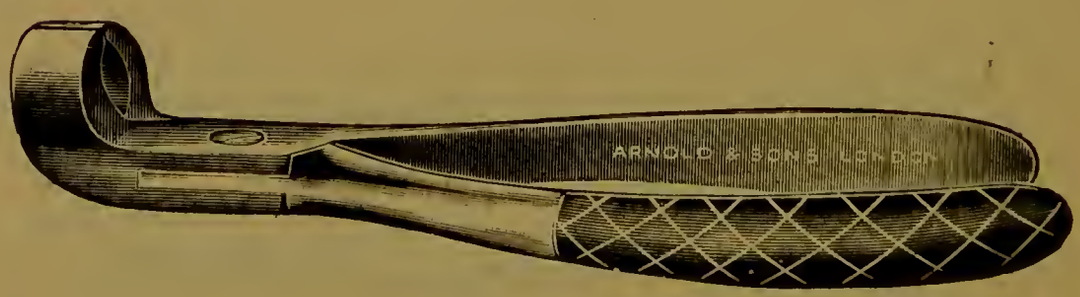


Fig. 538.

Tooth Forceps, for cutting incisors, Fig. 538...	0	17	6

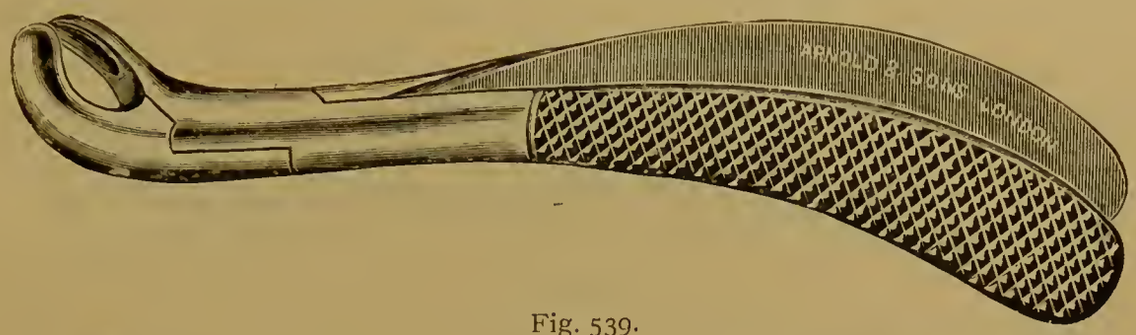


Fig. 539.

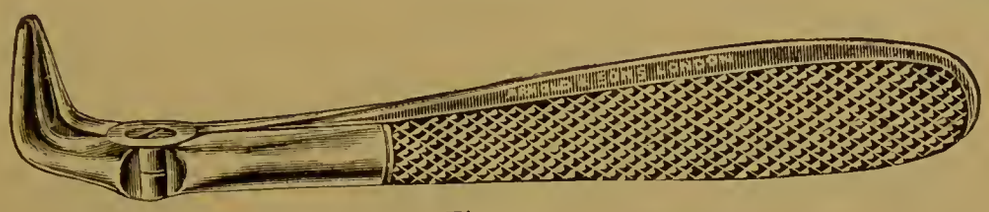


Fig. 540.

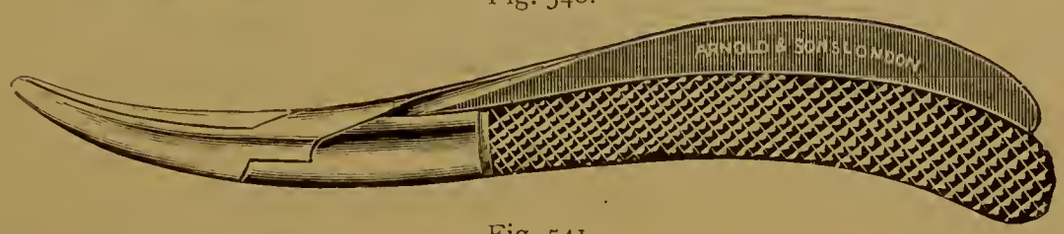


Fig. 541.

Fig. 542.

	£	s.	d.
Tooth Instruments (Gray's), for dogs, &c., consisting of three pairs of forceps, three scalers and gum lancet, nickel-plated, in leather pouch complete, Fig. 539 to Fig. 542	1	17	6
Tooth Forceps (Gray's), nickel-plated, Fig. 539	0	9	0
Ditto ditto ditto Fig. 540	0	8	0
Ditto ditto ditto Fig. 541	0	7	6
Ditto Scalers and Gum Lancet (Gray's), nickel-plated, Fig. 542 each	0	2	6

Extract from "THE VETERINARIAN."

Knowing from actual experience the want of suitable and reliable tooth instruments for the dog, without having recourse to those made for human purposes, which are frequently of no use whatever, Messrs. ARNOLD & SONS, London, have made, at my suggestion, some instruments which I have found answer every purpose.

Extract from "THE VETERINARY RECORD."

The largest pair of forceps are suitable for the extraction of the molars of both upper and lower jaws. The medium pair are well adapted for the removal of the pre-molars and incisors, whether temporary or permanent, and also for the removal of small bones and needles from the mouth. The small pair are for the removal of the temporary canines, which every practitioner with any experience whatever must have felt the want of; by the use of this pair it will be found, that as the blades are almost parallel, the pressure being equal over the whole surface of the tooth within the forceps, there is very little chance of the tooth being cut in two, as is the case when ordinary forceps are used, the pressure being all at one point. The gum lancet will be found very useful in separating the gum from the temporary canine, which is, in my opinion, the most difficult tooth to extract properly. The scalers will be found of great convenience in removing the tartar from the teeth.

Fig. 543.

	£	s.	d.
Tooth Forceps, with single joints, for dogs, &c., various patterns, Fig. 543 ... ... each	0	5	0

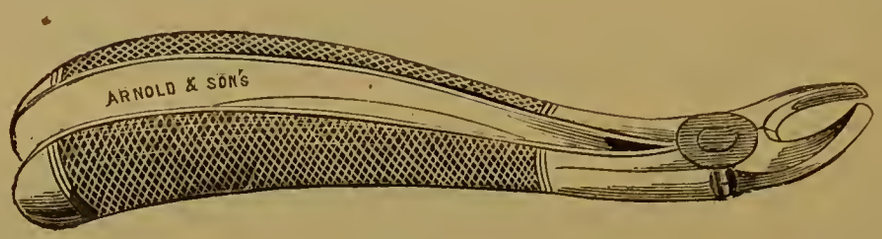


Fig. 544.

Tooth Forceps, with circular joints, for dogs, &c., various patterns, Fig. 544 ... ... each	0	7	6

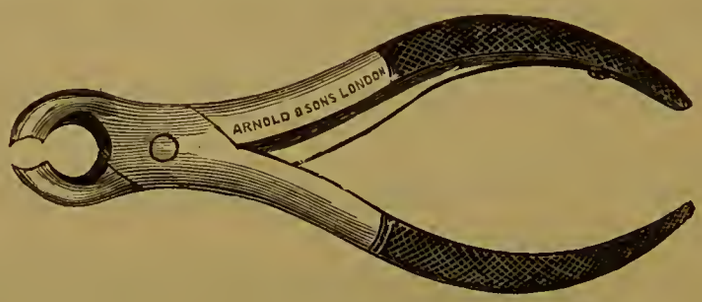


Fig. 545.

Tooth Forceps (Lewis'), for extracting splinters, or portions of teeth, Fig. 545	0	10	6

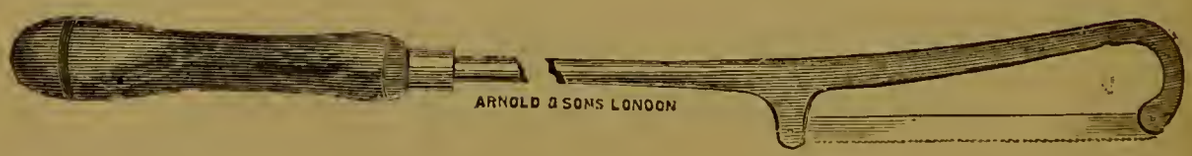


Fig. 546.

Tooth Saw (Lewis'), Fig. 546	0	17	6

Fig. 547.

Tooth Chisel (Green's), Fig. 547	2	10	0

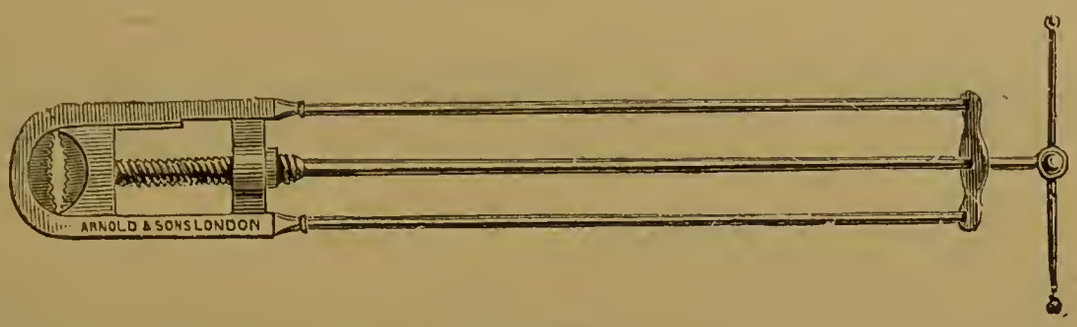


Fig. 548.

	£	s.	d.
Dental Incisor (Edgar's), Fig. 548	3	0	0

Fig. 549.

Tooth Chisel (Gowing's), sliding, Fig. 549	1	10	0

Fig. 550.

Tooth Chisel (Caudwell's), Sliding, improved, Fig. 550	2	10	0

Extract from "THE VETERINARY RECORD," September 10th, 1898.

Having an exceptionally long posterior equine molar to excise, over which I could not pass the ordinary tooth cutter, the idea occurred to me that the chief difficulty which opposes us in operating in such cases would be obviated if we had an instrument with a side opening. I therefore submitted a sketch of what I required to Messrs. ARNOLD & SONS, by whom the instrument is manufactured, and its use has been attended with the best results, not only for the excision of posterior molars but also for other elongated teeth.

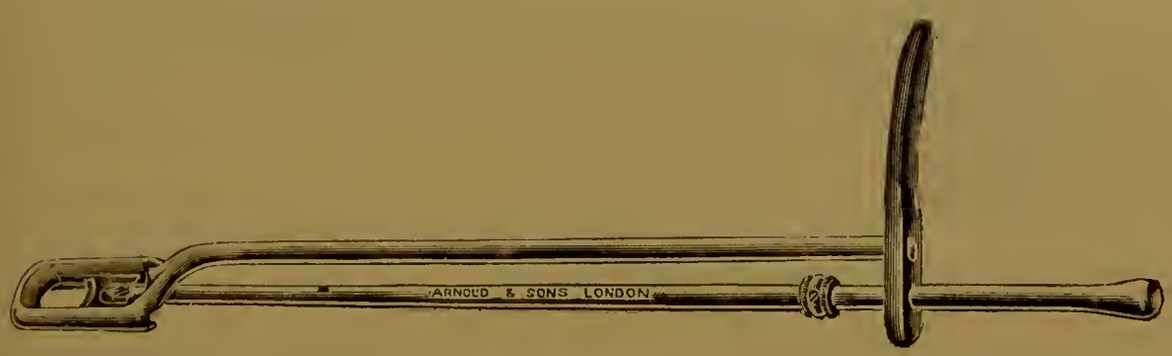


Fig. 551.

Tooth Chisel, sliding, Fig. 551	1	17	6

Fig. 552.

Tooth Chisel, French pattern, Fig. 552	1	7	6

Fig. 553.

	£	s.	d.
Tooth Chisel (Santy's), Fig. 553	0	8	0

Fig. 554.

Tooth Chisel (Gowing's). Fig. 554	0	12	6
Guide for above	0	15	0

Fig. 555.

Tooth Chisel, improved, Fig. 555	0	10	6

Fig. 556.

Tooth Chisel, Fig. 556...	0	7	6

Fig. 557.

Mallet, for use with Chisel, boxwood, Fig. 557	0	4	6
Ditto ditto Lignum Vitæ, superior	0	7	6

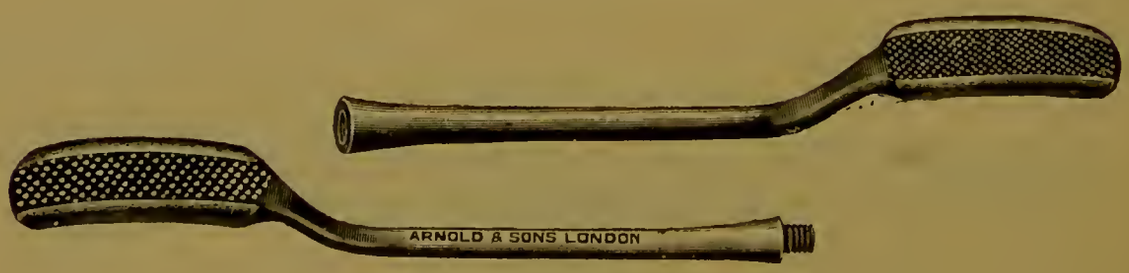


Fig. 558.

Tooth Rasp, Army pattern, double, jointed, Fig. 558	0	12	6

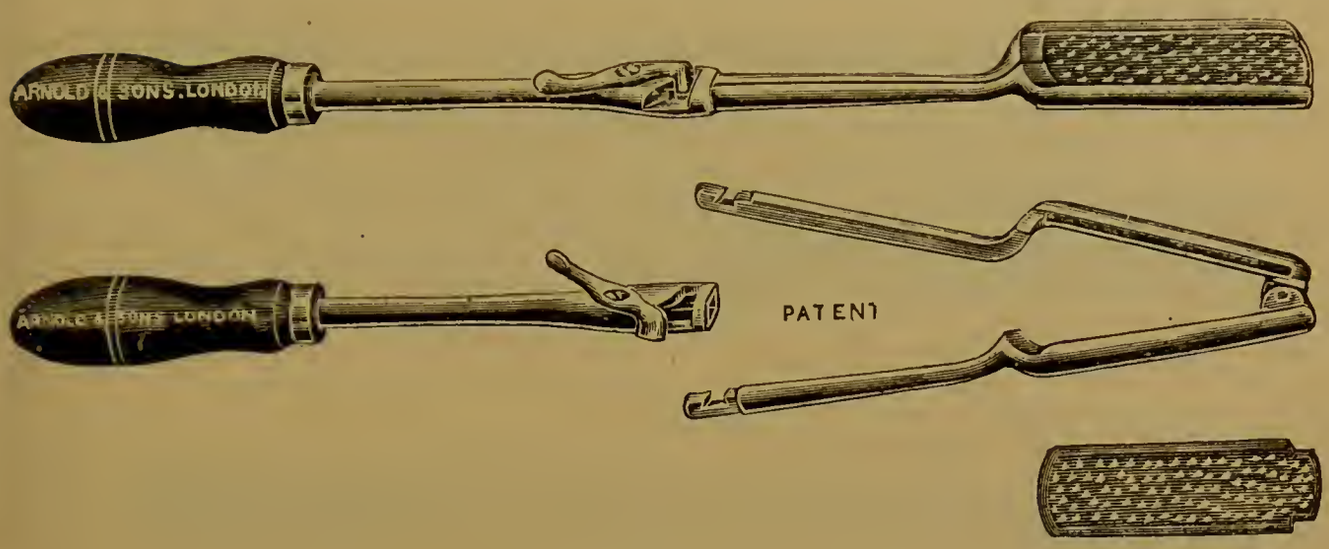


Fig. 559.

	£	s.	d.
Tooth Rasp ("Reliance," Patented), with one plate, complete, as supplied to Her Majesty's Government, Fig. 559	0	15	0
Extra plates, coarse cut, cut both ways, fine cut, and file cut, each	0	1	9
Canvas Case for above	0	3	6

Extract from "THE VETERINARY JOURNAL."

The above illustration shows a new form of tooth rasp which possesses many distinct advantages over those at present in use.

First :—It is so constructed that any number of plates can be instantly fitted.

Second :—Hitherto rasps with movable plates have been made with screws either fitting into the plate or pressing on it, and as these plates are necessarily very hard they are continually breaking. Now this invention entirely obviates this difficulty, as one has simply to open the clamp, place in the plate, close the instrument, and it is then ready for use.

Third :—Four kinds of plates can be used, viz. :—fine cut, coarse cut, cut both ways, and file cut.

Fourth :—Extra plates are supplied at a charge of 1s. 9d. each.

The rasp is extremely portable, folding into a very small space for carrying.

The patentees and manufacturers are Messrs. ARNOLD & SONS, of West Smithfield, London.

Fig. 560.

Tooth Rasp, plain, without guard, Fig. 560	0	6	0
Ditto ditto ditto to weld on handle	0	4	9

Fig. 561.

Tooth Rasp, with Arnold & Sons' improved guard to protect the gums, superior, Fig. 561	0	8	0
Ditto ditto ditto to weld on handle	0	6	9
Ditto ditto ditto to cut both ways	0	8	0
Ditto ditto ditto for ponies, &c.	0	7	0

Fig. 562.

	£	s.	d.
Tooth Rasp, with Arnold] & [Sons' improved guard to protect the gums, to unscrew for portability, Fig. 562	0	10	0
Ditto ditto ditto polished	0	12	6

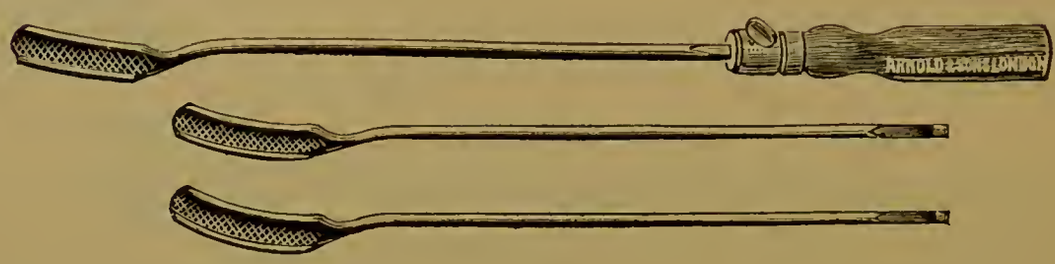


Fig. 563.

Tooth Rasps (Matthews'), set of 3, with screw socket handle, Fig. 563 1 3 6

Extract from "THE VETERINARIAN."

The great amount of care now devoted to minor every-day operations in equine dental surgery has produced a variety of rasps calculated for use on single molars, as opposed to the "old-time" system of wholesale reduction by 6 in. and 8 in. rasps. Those I now wish to place before the profession have been constructed with considerable care by Messrs. ARNOLD & SONS, whom I have to thank for the minute attention they have bestowed on their construction, and they are the ones I recommend to be used in my paper on "Dentistry," in the fourth edition of Sir F. Fitzwygram's "Horses and Stables."

Fig. 564.

Tooth Rasp (Gowing's) with screw-socket handle, extra long, Fig. 564 0 16 0

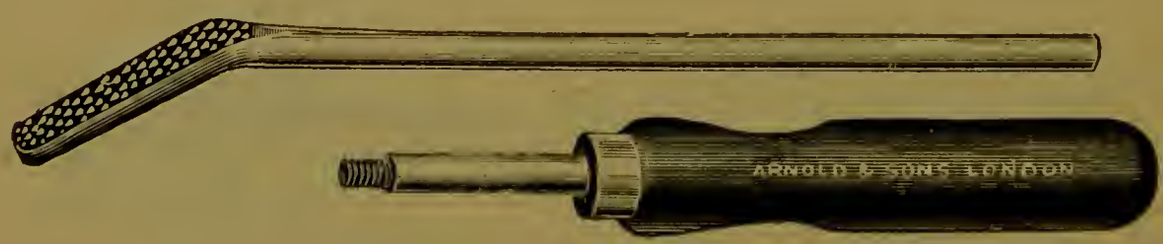


Fig. 565.

Tooth Rasp, short angled, for finishing first upper and lower molars, jointed for portability, Fig. 565	0	7	6
Ditto ditto ditto not jointed	0	6	6

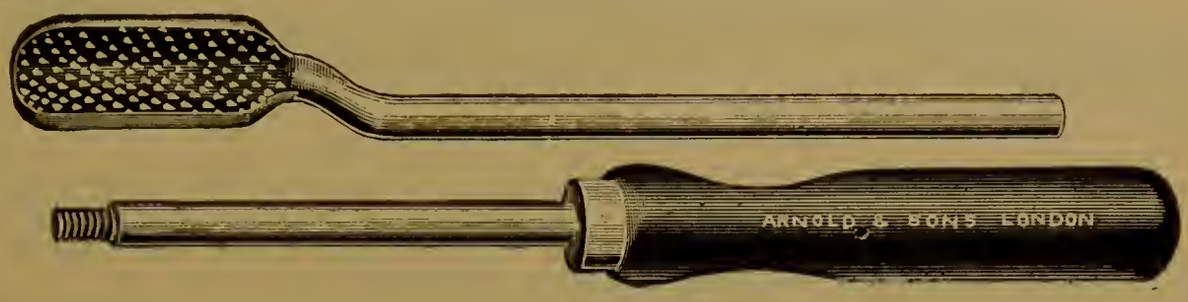


Fig. 566.

	£	s.	d.
Tooth Rasp, right or left, angular back, jointed for portability, Fig. 566 ... ... each	0	9	0
Ditto ditto ditto not jointed ... ... ditto	0	8	0

The above are most useful, being curved either on the right or left side, enables them to be used without causing injury to the gums.

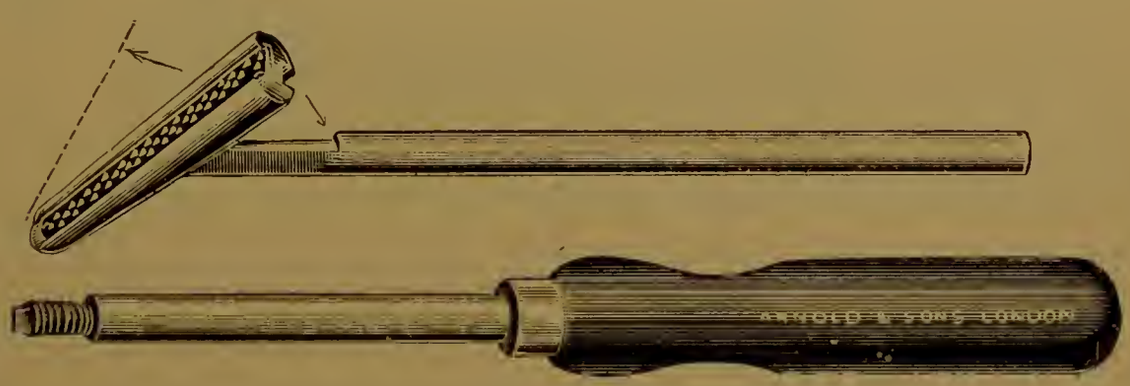


Fig. 567.

Tooth Rasp, adjustable, with swivel back, jointed for portability, Fig. 567	0	10	6
Ditto ditto ditto not jointed	0	9	6

Fig. 568.

Tooth Rasp, double, for front teeth, cut both sides, Fig. 568 ...	0	5	0

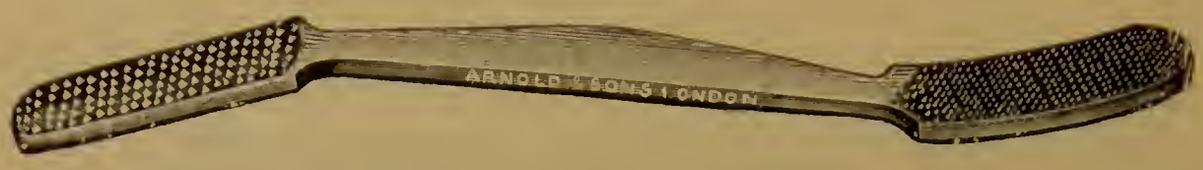


Fig. 569.

	£	s.	d.
Tooth Rasp, short, double ended, with file for rounding corner and first upper molars, Fig. 569	0	6	0

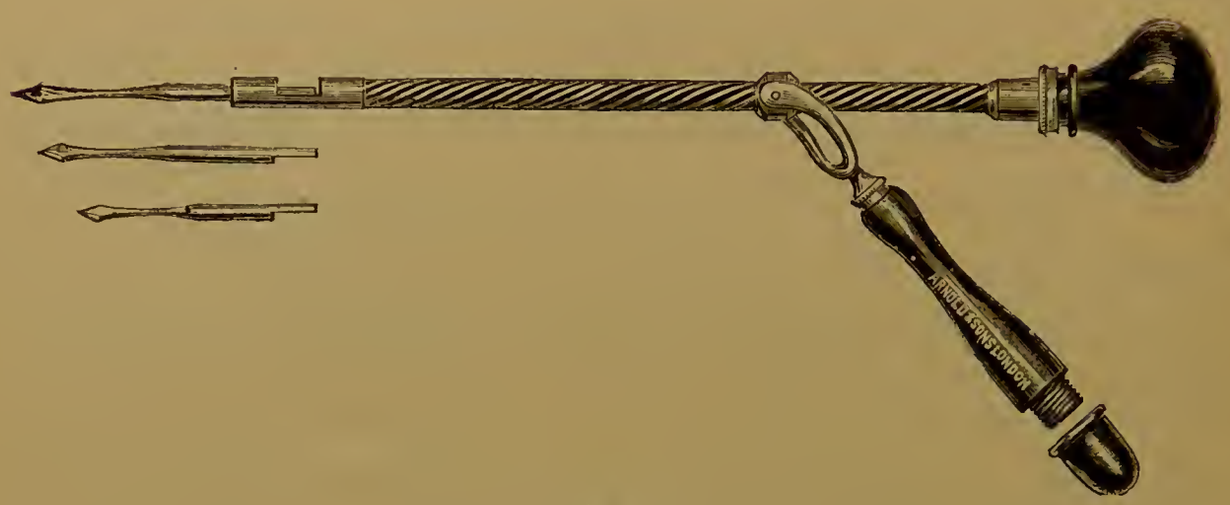


Fig. 570.

Drill Stock, with archimedean screw-action, fitted with three drills, Fig. 570	0	15	0
Ditto with multiplying action, set of drills and two small trephines, in leather case, complete	2	7	6

Neurectomy and Periosteotomy Instruments.

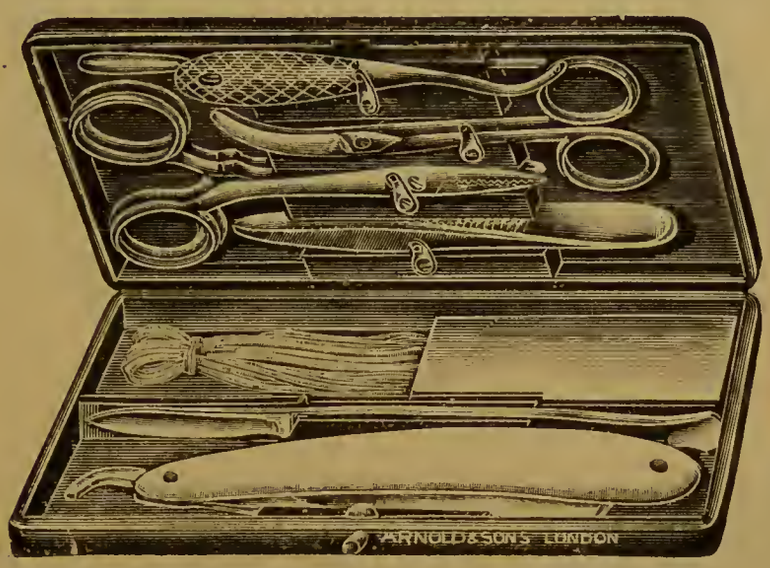


Fig. 571.

Neurectomy Instruments (Prof. Hobday's), Fig. 571, containing—

- Razor.
- Scalpel, in aseptic metal handle.
- Spring Forceps, fluted, nickel-plated.
- Two pairs Spencer Well's Artery Forceps.
- Neurectomy Needle (Simpson's).
- Director, with scoop, plated.
- Scissors, curved on flat.
- Six Needles, in aseptic metal case.
- Hank Suture Silk.

	£	s.	d.
The above, in leather case, complete...	1	12	6

Extract from "VETERINARY RECORD," March 18th, 1899.

By my suggestion, Messrs. ARNOLD & SONS have placed together in a convenient case, a set of instruments especially intended for the performance of Median and Tibial Neurectomy.

The case includes a razor, scalpel with aseptic handle, one pair of forceps, two pairs of artery forceps, a director, Simpson's tenaculum, a pair of curved scissors, needles in a metal box, and silk. These are the instruments we find most convenient to have at hand when performing neurectomy, particularly when operating upon either the median or tibial nerves.

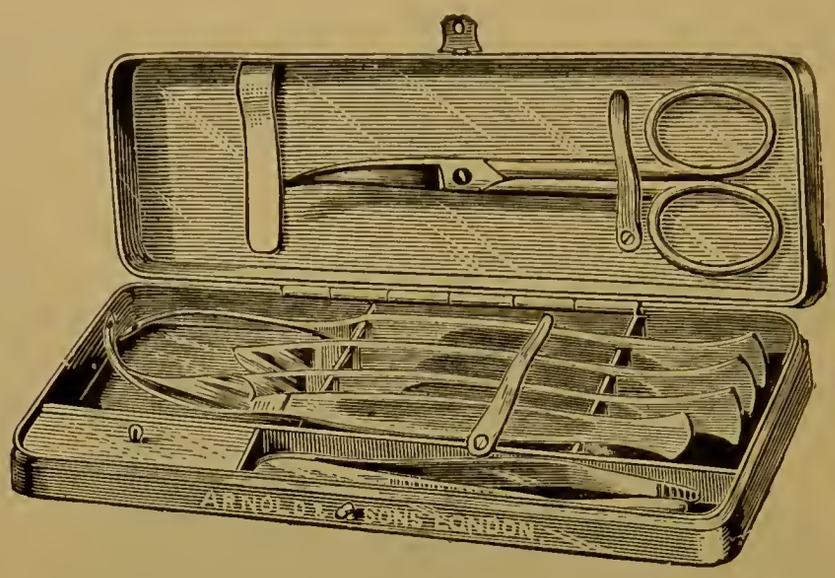


Fig. 572.

Neurectomy Instruments (Gray's), Fig. 572, containing—

- Two Neurectomy Knives, in aseptic metal handles.
- Neurectomy Bistoury, in aseptic metal handle.
- Neurectomy Needle, in aseptic metal handle.
- Spring Forceps, aseptic, to take apart.
- Scissors, curved on flat, aseptic, to take apart.

	£	s.	d.
The above set, in aseptic nickel-plated case, complete	1	15	0

Extract from "THE VETERINARIAN."

Messrs. ARNOLD & SONS, of West Smithfield, ever ready to advance the interests of the profession in their department, have made at my suggestion a case of aseptic neurectomy instruments, which will, I think, prove a convenience to practitioners.

Extract from "THE VETERINARY JOURNAL."

The case is nickel-plated and is quite air-tight, and the rack can easily be removed. It contains the following instruments:

A small pair of curved sharp pointed scissors, two neurectomy knives, one with a blunt convex back and sharp straight cutting edge, the other a short scalpel, a sharp pointed neurectomy needle, a bistoury for dividing the nerve, having at one end a blunt neurectomy needle, and a pair of aseptic spring forceps. There is also a special compartment for suture needles and a spring for holding wire. The instruments have all steel handles, the forceps and scissors being disarticulated in order to allow of being cleaned.

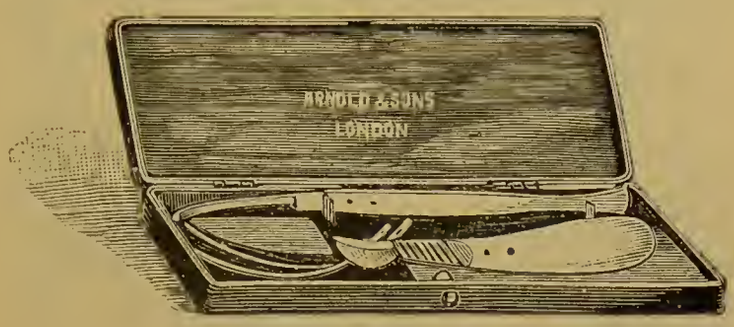


Fig. 573.

Neurectomy Instruments, Fig. 573, containing—

Neurectomy Knife, in ivory handle. Ditto Bistoury, ditto	Two Needles, full curved.

	£	s.	d.
The above set, in leather case, complete	0	10	6

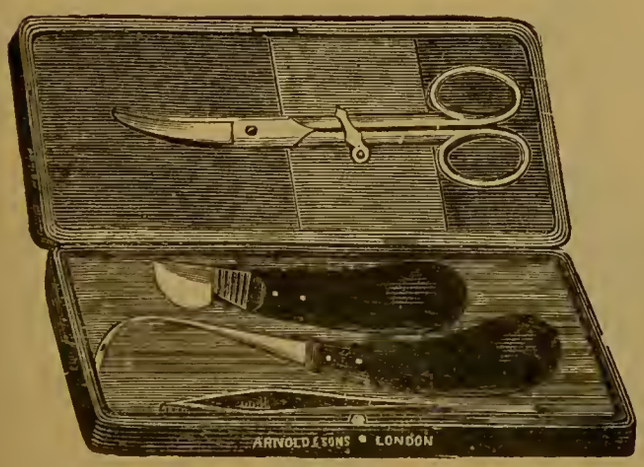


Fig. 574.

Fig. 575.

Neurectomy Instruments (Prof. Robertson's), Fig. 574, containing—

Neurectomy Knife, in ebony handle. Ditto Needle, ditto	Scissors Curved on Flat. Spring Forceps.

The above set, in leather case, complete	0	17	0

Neurectomy Instruments (Gowing's), Fig. 575, containing—

Neurectomy Knife, in ivory handle. Ditto ditto and Needle, in ivory handle.	Neurectomy Bistoury, in ivory handle. Spring Forceps.

The above set, in leather case, complete	1	0	0

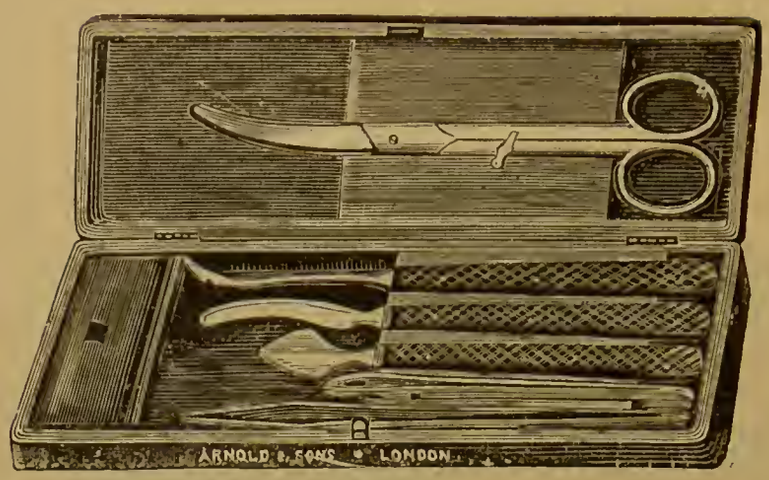


Fig. 576.

Neurectomy Instruments (Major Smith's), Fig. 576, containing—

- Neurectomy Knife, scale tang, in chequered ebony handle.
- Neurectomy Bistoury, scale tang, in chequered ebony handle.
- Neurectomy Needle, in chequered ebony handle.
- Scissors, Large, curved on flat.
- Artery Forceps, fenestrated.
- Spring Forceps.

	£	s.	d.
The above set, in leather case, complete	1	12	6

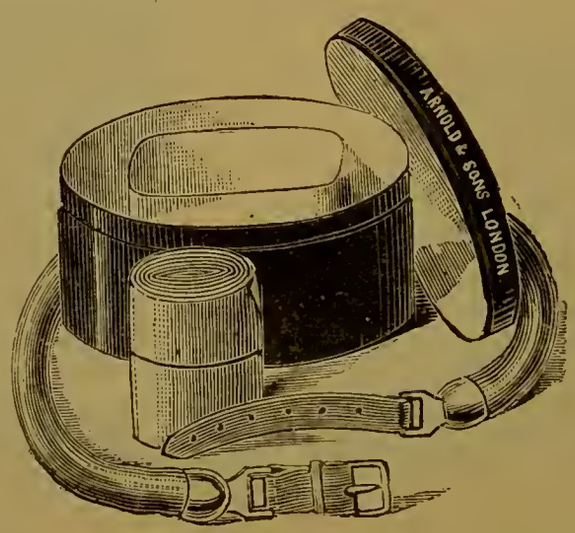


Fig. 577.

Neurectomy Bandage and Tourniquet (Major Smith's), in japanned tin case, complete, Fig. 577	0	17	6

Fig. 578.

Neurectomy Bistoury (Prof. Robertson's), ebony handle, Fig. 578 ...	0	3	6
Ditto ditto ditto aseptic metal handle ...	0	4	6

Fig. 579.

	£	s.	d.
Neurectomy Knife (Major Smith's), ebony handle, Fig. 579 ...	0	4	0

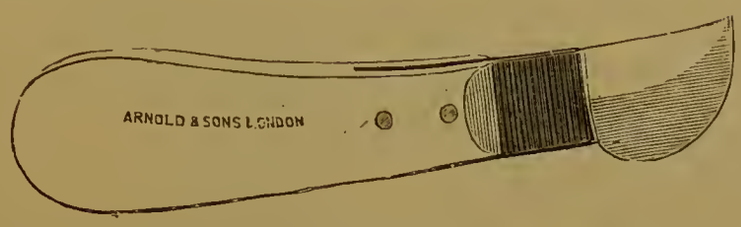


Fig. 580.

Neurectomy Knife, ebony handle, Fig. 580	0	3	0
Ditto ditto ivory handle	0	3	6
Ditto ditto aseptic metal handle	0	4	0

Fig. 581.

Neurectomy Knife and Needle (Woodger's), ebony handle, Fig. 581	0	4	0

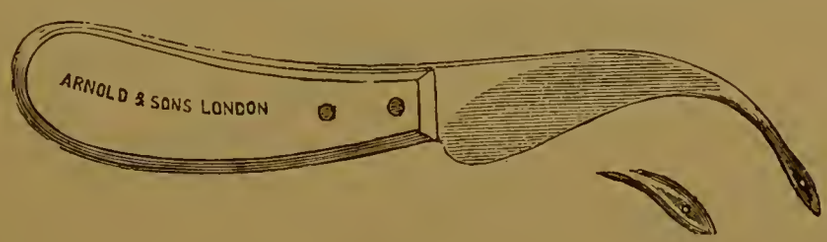


Fig. 582.

Neurectomy Knife and Needle (Gowing's), ebony handle, Fig. 582...	0	4	0
Ditto ditto ditto ivory handle	0	4	6
Ditto ditto ditto aseptic metal handle ...	0	5	0

Fig. 583

Neurectomy Needle (Simpson's), Fig. 583	0	2	6
Ditto ditto ditto nickel-plated	0	2	9

Extract from "THE VETERINARY RECORD."

The tenaculum here illustrated is the pattern designed by Mr. James Simpson, of Maidenhead, which was brought before the notice of the members of the North of England Veterinary Medical Association at their meeting in November last.

The advantages claimed are: That being made of metal all in one piece, it can readily be rendered aseptic; that its shape and shortness enable great leverage to be obtained, and at the same time a fine delicacy of adjustment, and that in neurectomy cases the shape of the handle enables the latter to be forced underneath the nerve, thus doing away with the necessity for using a piece of silk or string. It is manufactured by Messrs. ARNOLD & SONS, West Smithfield London.

Fig. 584.

	£	s.	d.
Neurectomy Needle (Metherell's), ebony handle, Fig. 584	0	3	0
Ditto ditto ditto ivory handle	0	3	6
Ditto ditto ditto aseptic metal handle	0	4	0

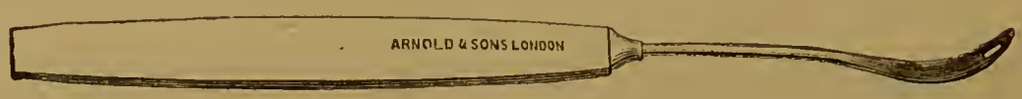


Fig. 585.

Neurectomy Needle (Prof. Robertson's), ivory handle, Fig. 585 ...	0	3	0
Ditto ditto ditto aseptic metal handle ...	0	3	6

Fig. 586.

Neurectomy Scissors (Gowing's) with concealed blade, Fig. 586 ...	0	12	6

Fig. 587.

Periosteotomy Instruments (Spooner's), Fig. 587, containing—

Periosteotomy Knife, in ivory handle.	Bistoury, curved, in ivory handle.
Neurotomy ditto ditto	Seton Needle, curved.

The above set, in leather case, complete	0	17	6

Obstetric and Gynæcological Instruments, &c.

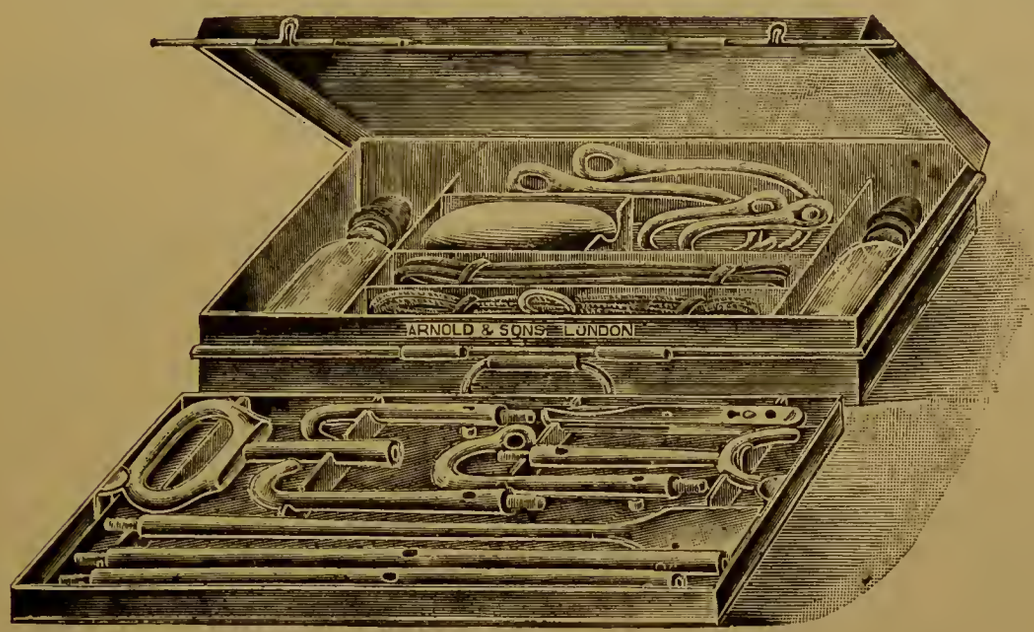


Fig. 588.

	£	s.	d.
Obstetric Instruments, complete set, nickel-plated, in aseptic metal case, Fig. 588	3	12	6

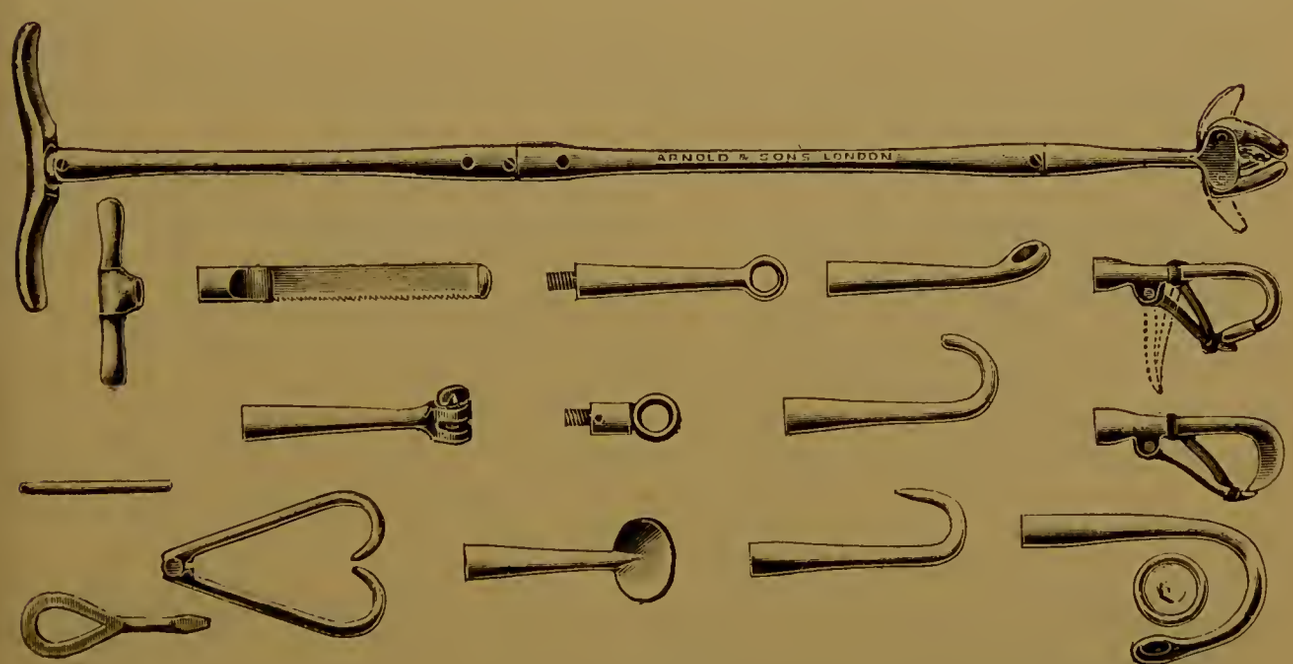


Fig. 589.

Obstetric Instruments (Pollock's "Unique"), in aseptic metal case, complete, Fig. 589	8	8	0

The above set comprises jointed crutch, sharp and blunt hooks, curved and straight porte cord, spring guarded hook and knife, subcutaneous spatula, bone saw, &c., &c. The different parts can be screwed together in various ways and lengths to form 30 different instruments, the whole being fitted in an aseptic case, together with stoppered bottles for such medicinal agents as are necessary in obstetrical surgery

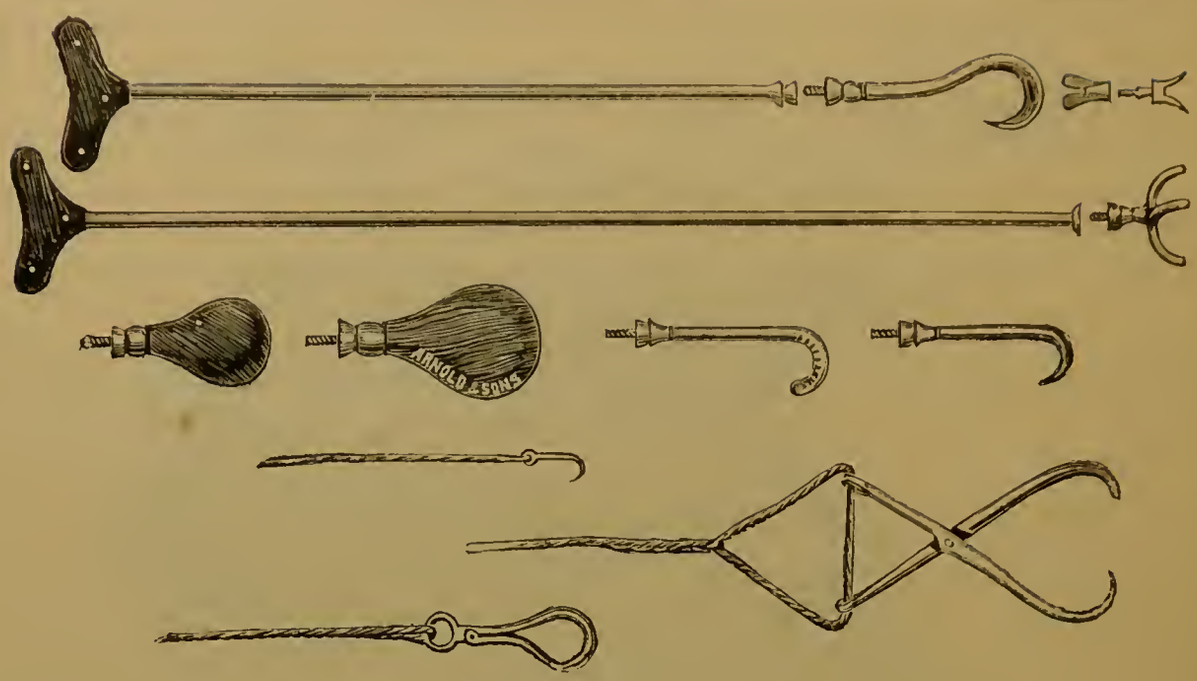


Fig. 590.

£ s. d.

Obstetric Instruments (Cooper's), Fig. 590, containing :—

Two Long Parturition Rods.
Sharp Hook with screw for rod.
Blunt Hook, serrated ditto.
Flat Hook for elevating limb, with screw for rod.
Prong with Screw for pushing back fœtus.
Crutch for breach presentation.
Two Pessaries, large and small.
Double-jointed Sharp Hook with rope.
Guarded Hook with rope.
Small Sharp Hook with rope.

The above set, complete 4 10 0

Obstetric Instruments, containing :—

Obstetric Instruments (Gowing's).
Ditto Forceps (Robert's).
Double Hook.
Two Hooks, blunt and sharp.
Embryotomy Knife, with slide.
Ditto ditto hooked, with ring.
Embryotomy Knife, straight, with ring.
Chain Saw and Sector, with handles.
Obstetric Instrument (Prof. Simonds').
Ditto ditto (Beeson's).
Bitch Forceps, with spring.

The above set in oak case complete 15 0 0

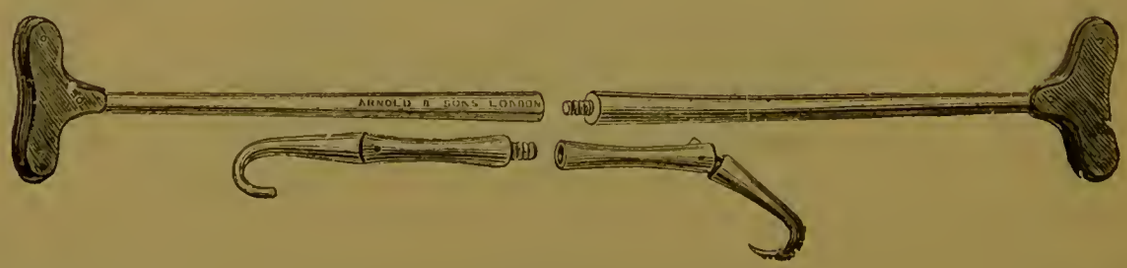


Fig. 591.

Obstetric Instruments (Gowing's), with sharp and blunt pointed jointed hooks, complete Fig. 591 ... ... 1 7 6

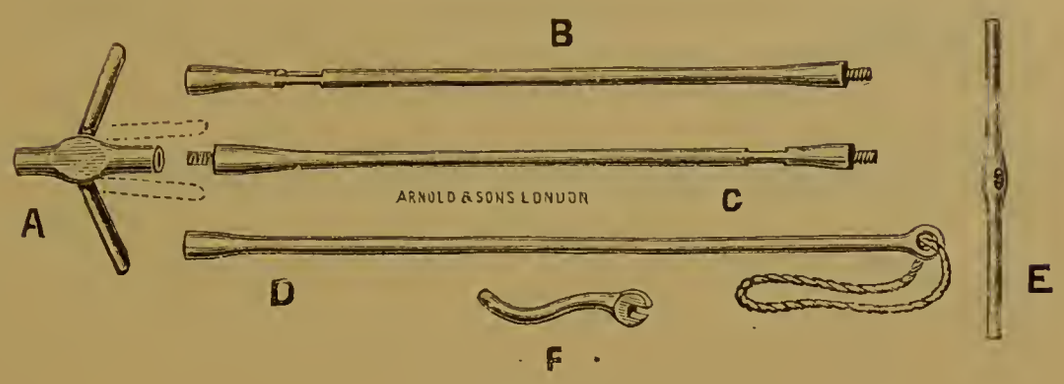


Fig. 592.

	£	s.	d.
Obstetric Instruments (Dowell's), complete, Fig. 592	1	8	6

The above represents an improved set of obstetric instruments. Fig. A fits on the end of a long rod, with cross handle, Figs. B, C and E. When screwed on with the wings pointing forwards it acts as a repeller; when reversed on the rod, it is useful in a case of breech presentation, the hind legs pointing directly forward. The fœtus being dead, the anus of the fœtus is enlarged with an embryotomy knife and the instrument forced well into the abdomen; to do this it will be found advisable to have a cord attached to the tail of the fœtus, held by an assistant. On attempting to withdraw the instrument, the wings will open and catch against the brim of the pelvis; when a tackle may be applied to the cross handle, which is outside the mare's vulva. Fig. D fits on to Figs. C and E, and will be found useful when the foot, ear, or muzzle of the fœtus is just out of reach of the operator's hand, The rope grummet at the end of the rod has copper wire in it, and will therefore keep any shape it may be put into, before it enters the mare's vulva. Having passed the hand in, with the loop of the grummet just beyond the tips of the fingers, place it over the part wanted, and let an assistant twist the handle, when it will be found possible to hold anything, no matter how slippery it may be. This instrument, unless used very gently, is only applicable in cases in which the fœtus is dead, as it would be quite possible to cut the muzzle of the fœtus off if sufficient force is used in twisting the handle. Fig. F is a spanner for tightening the rods.

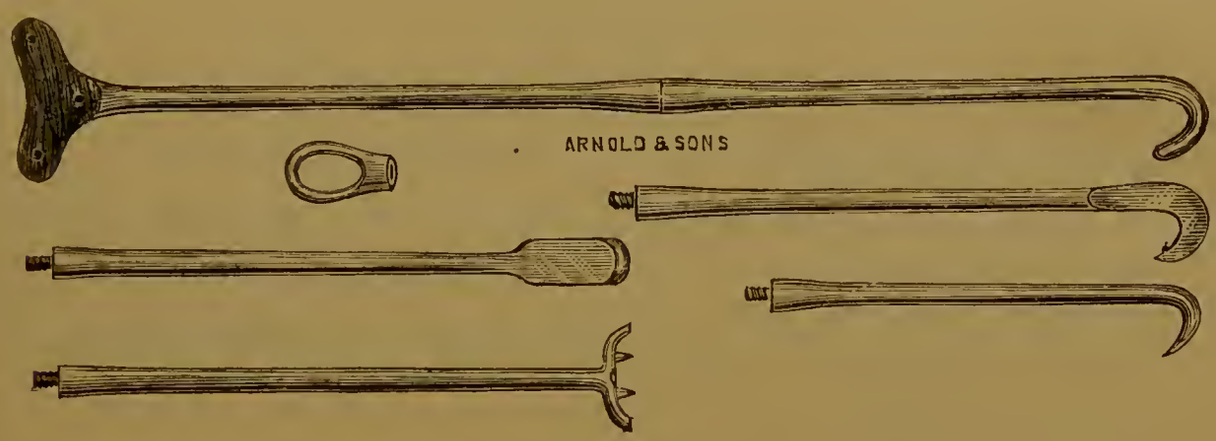


Fig. 593.

Obstetric Instruments (Fletcher's), complete, Fig. 593	1	15	0
Ditto ditto ditto in leather case ...	2	5	0

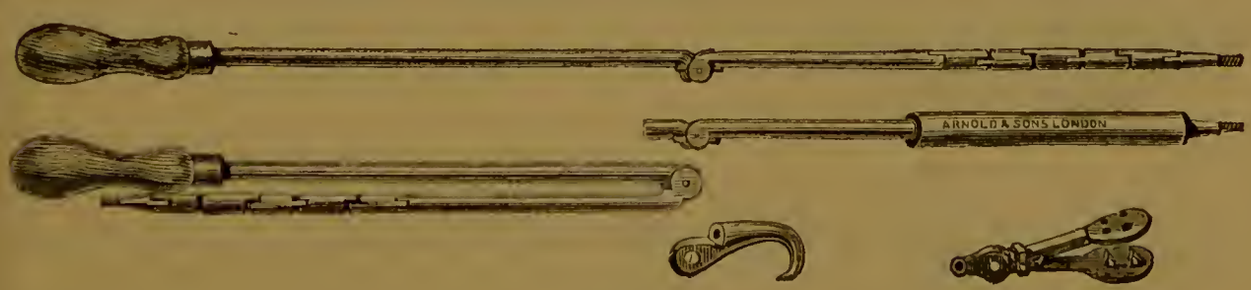


Fig. 594.

Obstetric Instruments (Beeson's), jointed, with ear clamp, hook, and handle, complete, Fig. 594	3	0	0

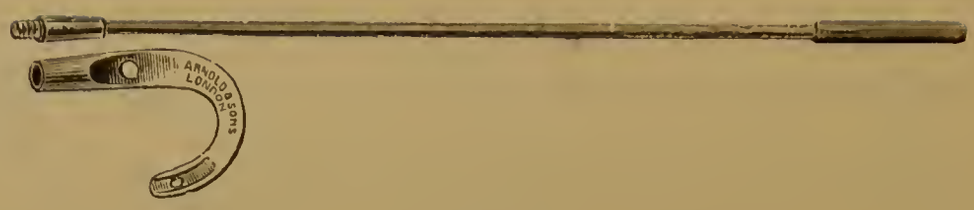


Fig. 595.

	£	s.	d.
Obstetric Instrument (Prof. Simonds'), with hook and whalebone staff, Fig. 595	0	17	6

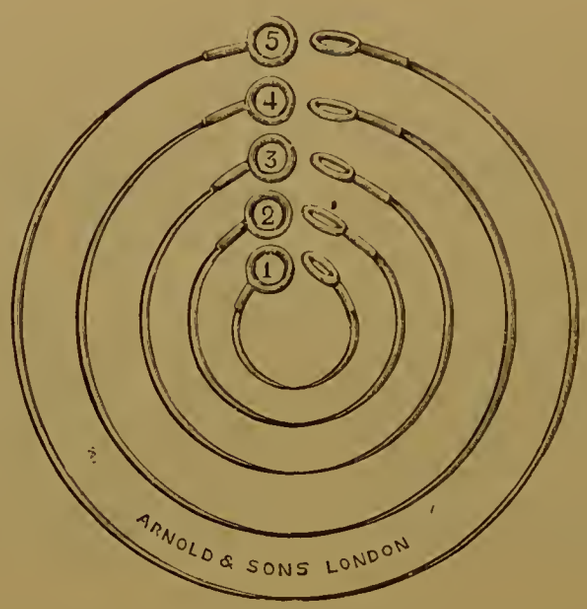


Fig. 596.

Obstetric Porte Spring Bands (Pollock's), Patented, 5 sizes, nickel-plated, Fig. 596, each No. 1 2s. 6d., No. 2, 3s. 6d., No. 3 5s., No. 4 6s., No. 5	0	7	0
Ditto ditto ditto complete set of 5	1	2	6

These bands are unique for simplicity and utility. Eminent practitioners have described them as a "revelation to the profession," "a most useful instrument," and "just the thing required."

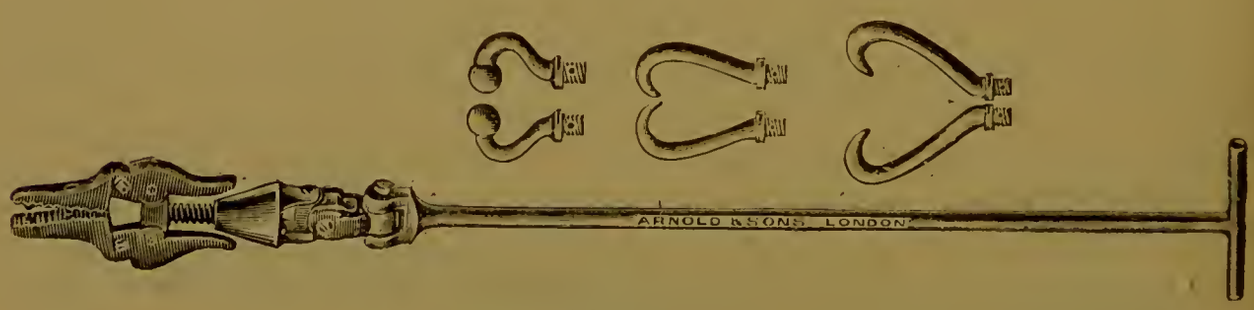


Fig. 597.

Obstetric Ear, Nose, and Limb Forceps (Pollock's), Patented, Fig. 597	5	5	0

This compound instrument can be brought into use in many cases. It is supplied with a mobile universal joint and easily adjusted at any angle. When once fixed it cannot slip, and no injury results from its use. Great power may be applied without fear of injury resulting from the hooks slipping.

Fig. 598.

	£	s.	d.
Obstetric Ecraseur (Pollock's), Patented, with single barrel, Fig. 598	8	17	6

Fig. 599.

Obstetric Ecraseur (Pollock's), Patented, with double barrel, Fig. 599	12	10	0

The above Ecraseurs, Figs. 697 and 698, are designed to supply a long-felt want in the profession. The fœtus can be severed through hip, thigh, limb, neck, or transverse section with comparative ease. The chain, which is fitted with lancet and saw cutting blades, is passed round part of fœtus desired to be cut. The ecraseur is then put in position, chain fastened to connecting studs, and the screw is gradually tightened and the limb of fœtus severed. During the process of screwing it is advisable to rest a minute now and again so as to give the chain time to cut through the tissues. Bone offers but little resistance. By the use of these ecraseurs difficult cases will be simplified and suffering mitigated.

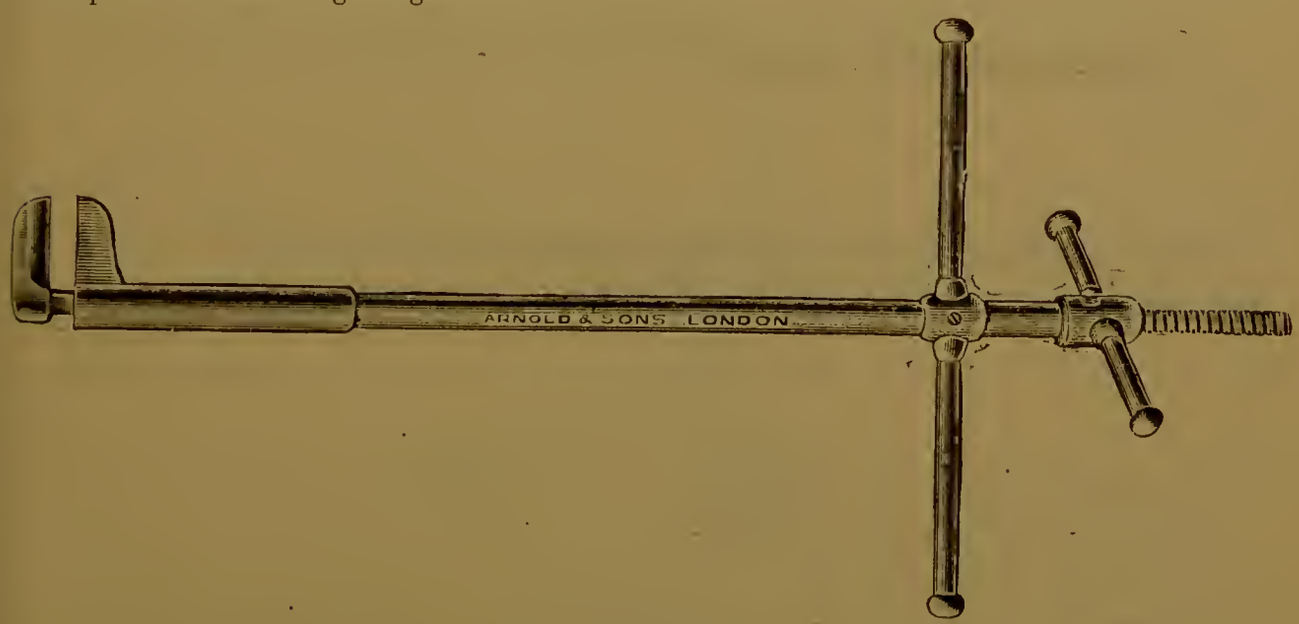


Fig. 600.

Obstetric Guillotine (Pollock's), Patented, Fig. 600	4	17	6

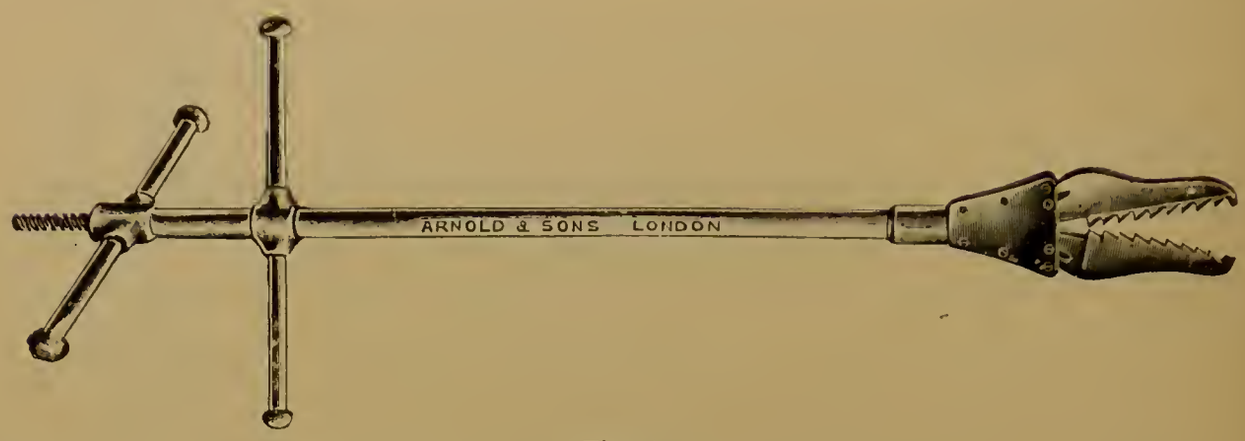


Fig. 601.

	£	s.	d.
Obstetric Embryotome (Pollock's), Patented, Fig. 601	8	15	0

Figs. 600 and 601, are designed for amputating limbs or cutting through any part of fœtus. They only require to be once used to command approval; the strongest bone can be cut with ease. They are light in structure, simple in construction, and perfect in use.

Fig. 602.

Obstetric Harpoon (Pollock's), Patented, Fig. 602	4	12	6

This instrument is for laying hold of a fœtus too far distant for the surgeon to grasp. Its utility is apparent and the mechanism is simple. The fœtus is pierced per rectum, thorax, or abdomen, and drawn forward to pelvis. The handle can be unscrewed and removed whilst the fœtus is still held close to pelvis by the traction cord.

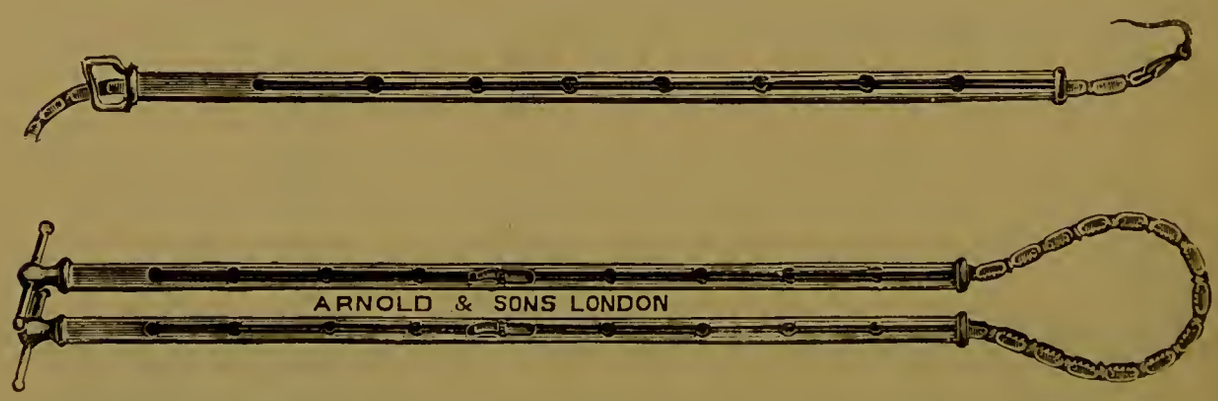


Fig. 603.

Embryotomy Chain Saw (Pollock's), Patented, with steel tube, guards and regulators, Fig. 603	3	10	0

The chain saw is supplied with lancet blades, and can be easily placed in position by the aid of the porte spring band. In passing the chain it is drawn through the tube, thus injury to the uterus is obviated. When placed round the part desired to be cut the ends of chain are put through the guards. When the chain is brought into action no injury can possibly be done by it. Great cutting power is gained by having part of the chain in the sheaths.

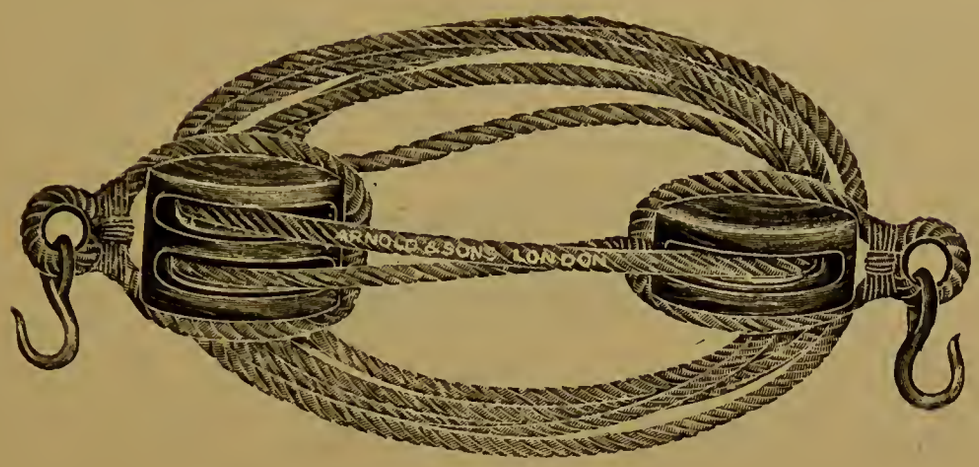


Fig. 604.

	£	s.	d.
Obstetric Pulley Blocks, wood, with rope, complete, Fig. 604 ...	0	16	6

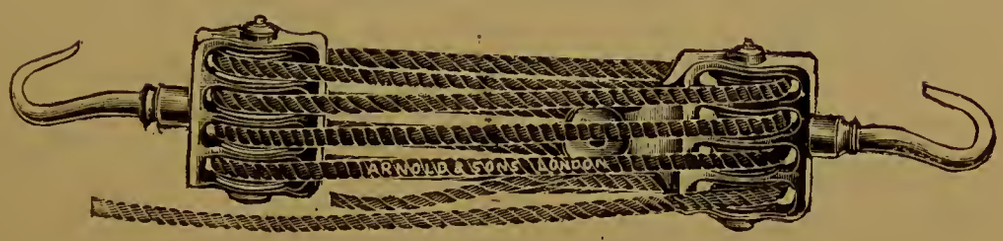


Fig. 605.

Obstetric Pulley Blocks, quadruple, portable, metal, nickel-plated, with rope, complete, Fig. 605	1	5	0

Fig. 606.

Obstetric Rope, Fig. 606	0	2	6
Ditto Ropes ... ...per set of four	0	7	6

Fig. 607.

	£	s.	d.
Obstetric Hook, single, blunt, with rope, Fig. 607	0	3	6

Fig. 608.

Obstetric Hook, single, sharp, with rope, Fig. 608	0	3	6

Fig. 609.

Obstetric Hook, blunt, with spring joint, Fig. 609	0	9	0

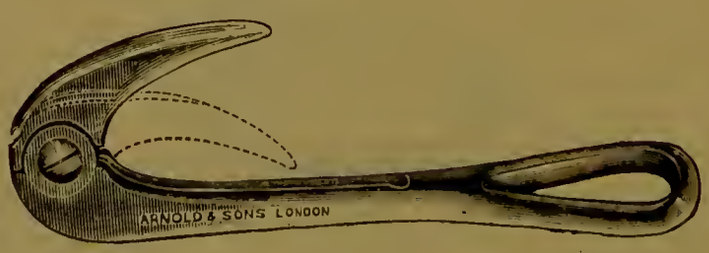


Fig. 610.

Obstetric Hook, sharp, with spring joint, Fig. 610	0	9	0

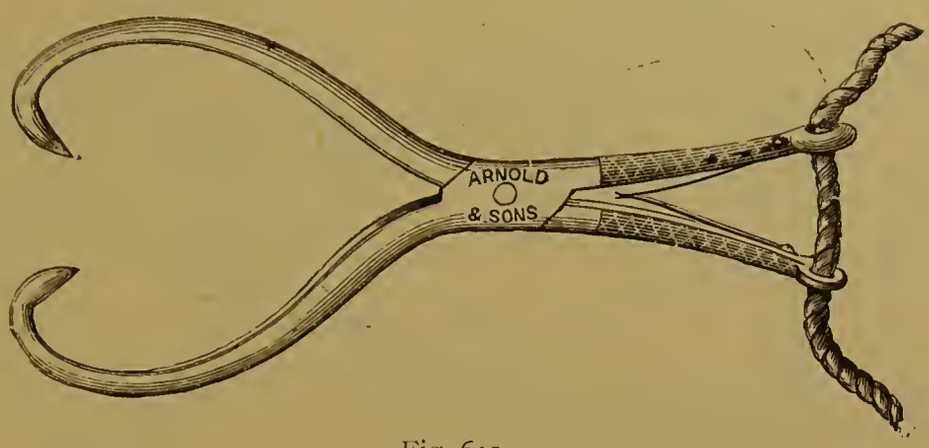


Fig. 611.

	£	s.	d.
Obstetric Hook, double (Roberts'), with spring, Fig. 611	0	12	0

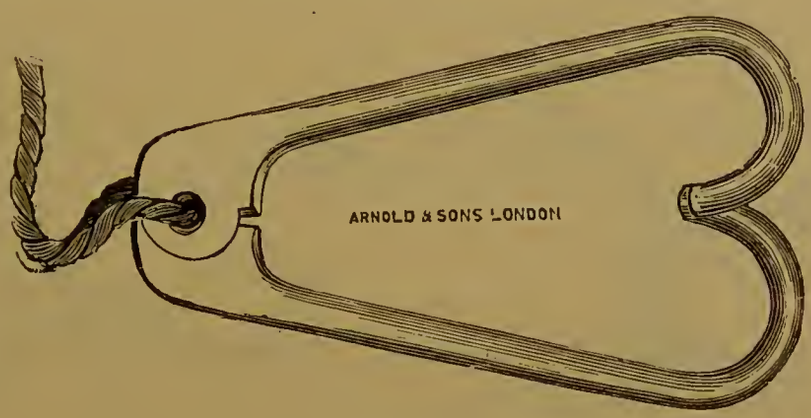


Fig. 612.

Obstetric Hook, double, jointed, blunt or sharp pointed, Fig. 612 ...	0	8	6

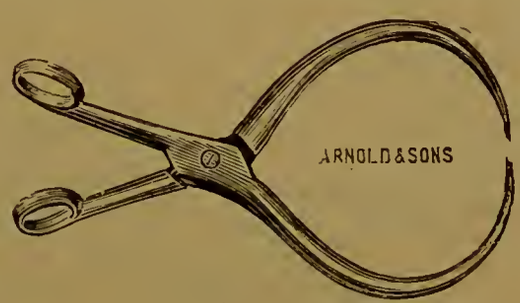


Fig. 613.

Obstetric Hook, double, sharp, superior, Fig. 613	0	7	6

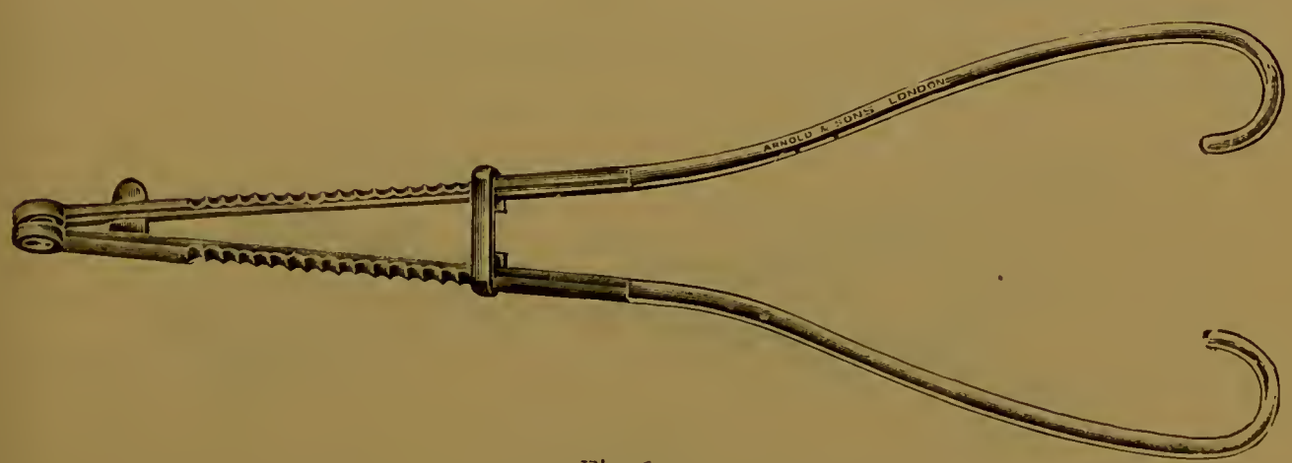


Fig. 614.

Obstetric Hook, double, blunt, extra long, with slide, nickel-plated, Fig. 614	1	10	0

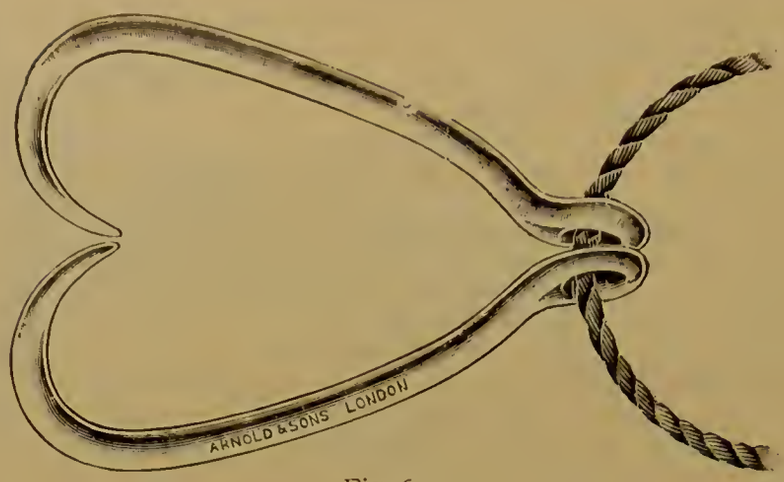


Fig. 615.

	£	s.	d.
Obstetric Hook, double, improved, Fig. 615	0	4	0

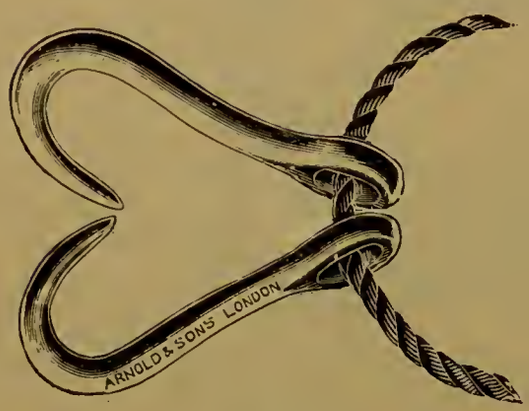


Fig. 616.

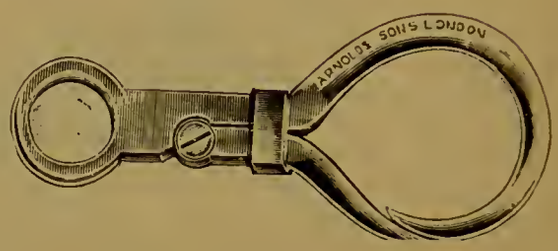


Fig. 617.

Obstetric Hook, double, Fig. 616	0	3	6
Ditto ditto (Drew's), with slide, Fig. 617	0	7	0

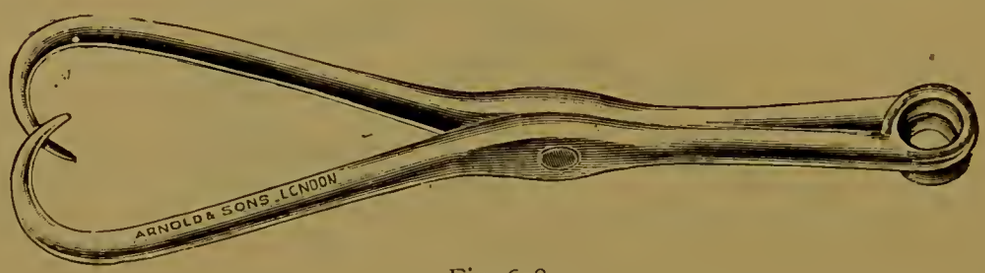


Fig. 618.

Obstetric Hook (Hammond's), double, Fig. 618	0	6	0

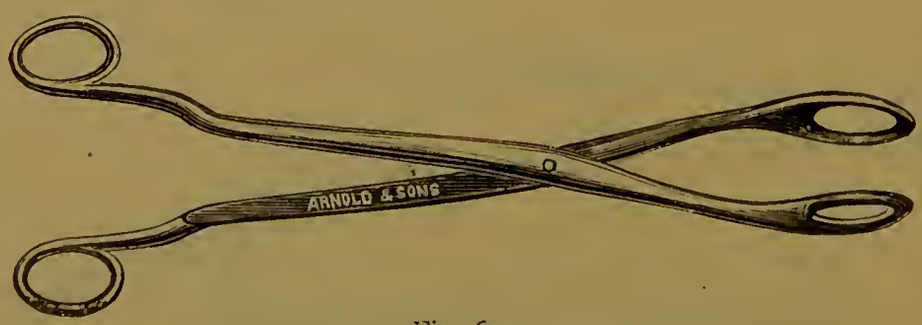


Fig. 619.

Obstetric Forceps, bitch, Fig. 619, three sizes each 10s. 6d., 12s. 6d., and	0	15	0

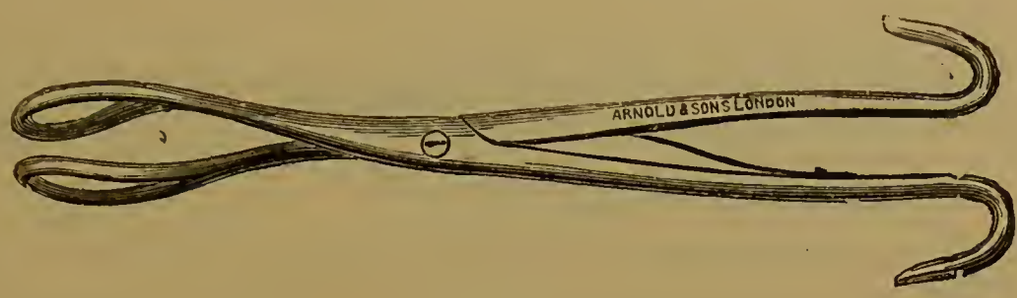


Fig. 620.

	£	s.	d.
Obstetric Forceps, bitch (Hill's), with spring, three sizes each, Fig. 620 ... ... 11s. 6d., 13s. 6d., and	0	16	0

Fig. 621.

Obstetric Forceps, bitch (Sewell's), nickel-plated, Fig. 621	0	11	0

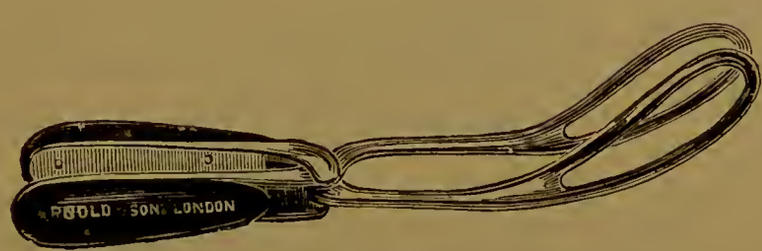


Fig. 622.

Obstetric Forceps, bitch (Anderton's), nickel-plated, Fig. 622 ...	0	14	6
Ditto ditto ditto in aseptic metal handle ...	0	17	0
Ditto ditto (Rowe's)	0	12	6
Ditto ditto (Hurrell's)	0	17	6
Ditto ditto (Cartwright's)	0	15	0

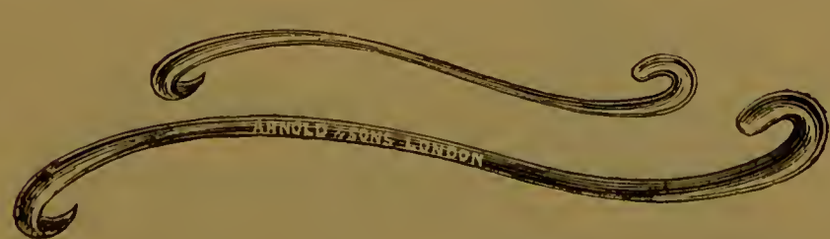


Fig. 623.

Obstetric Crotchets, bitch (Anderton's), two sizes, nickel-plated, Fig. 623 ... ... each 3s. and	0	4	0

Fig. 624.

	£	s.	d.
Vectis, double (Prof. Hobday's), for small animals, nickel-plated, Fig. 624	0	4	0

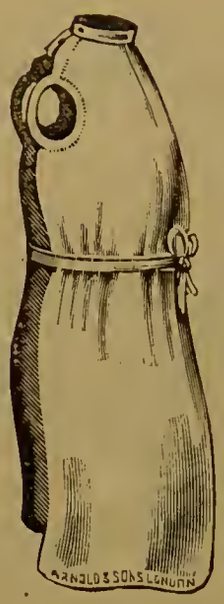


Fig. 625.

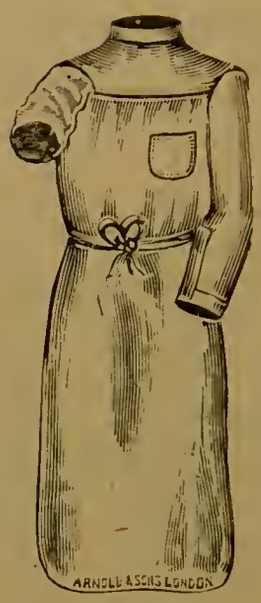


Fig. 626.

Obstetric Apron, with shoulder pieces to button, Fig. 625	0	6	6
Ditto Coat, with long sleeves, pocket, and fastens at back (the sleeves are so arranged that they can be buttoned up at the shoulder), Fig. 626	0	11	6

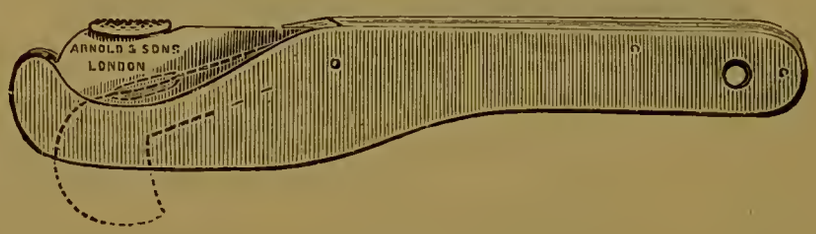


Fig. 627.

Embryotomy Knife (Cole's), with spring, aseptic metal handle, Fig. 627	0	6	6

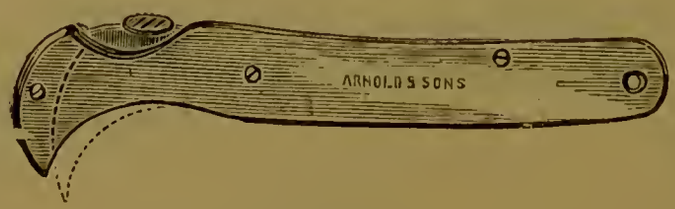


Fig. 628.

Embryotomy Knife (Unsworth's), with spring, aseptic metal handle, Fig. 628	0	6	6

Fig. 629.

	£	s.	d.
Embryotomy Knife (Arnold & Sons'), with spring sliding blade, horn handle, Fig. 629	0	7	6

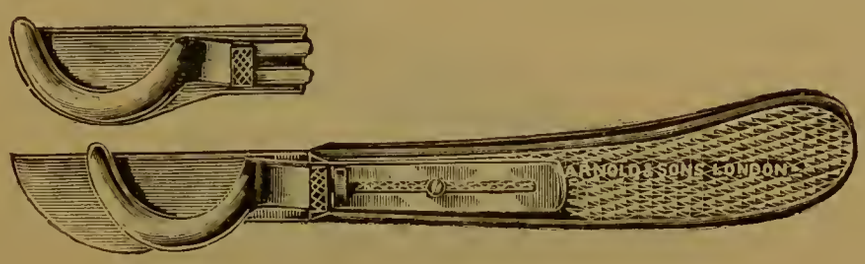


Fig. 630.

Embryotomy Knife, with sliding guard, Fig. 630	0	8	6

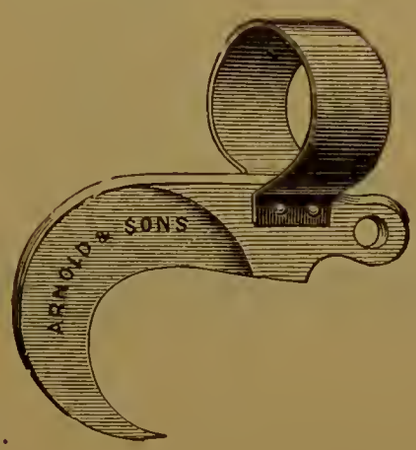


Fig. 631.

Embryotomy Knife, sickle shape, with finger ring, Fig. 631 ...	0	3	6

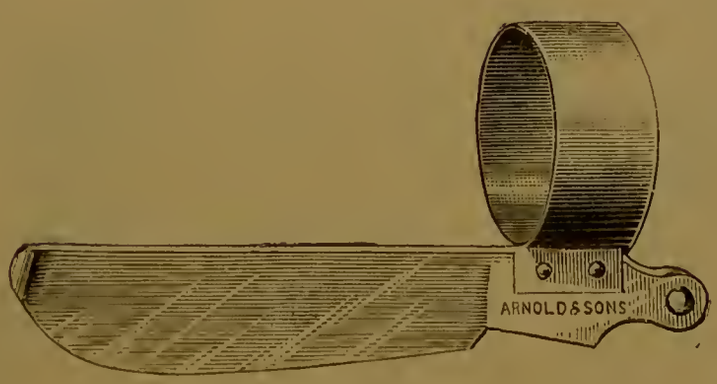


Fig. 632.

Embryotomy Knife, with finger ring, Fig. 632	0	3	6

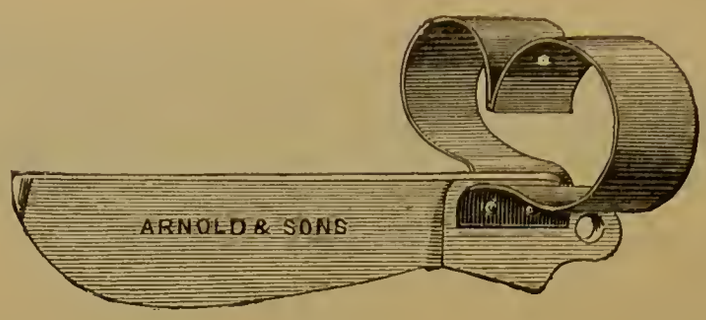


Fig. 633.

	£	s.	d.
Embryotomy Knife (Cowan's), with double finger ring, Fig. 633 ...	0	4	0

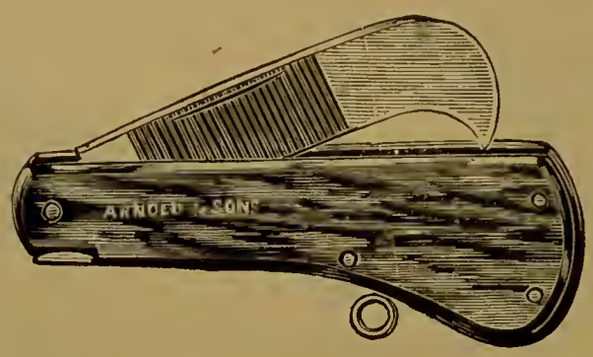


Fig. 634.

Embryotomy Knife (Unsworth's), with spring back and French catch, Fig. 634	0	5	6

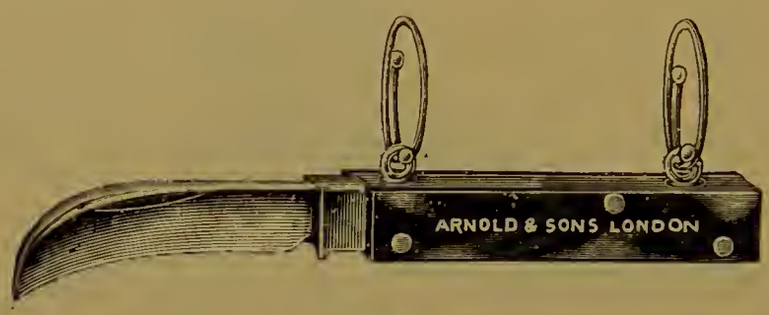


Fig. 635.

Embryotomy Knife (Dean's), with spring back and adjustable finger rings, in tortoiseshell handle, Fig. 635	0	10	0

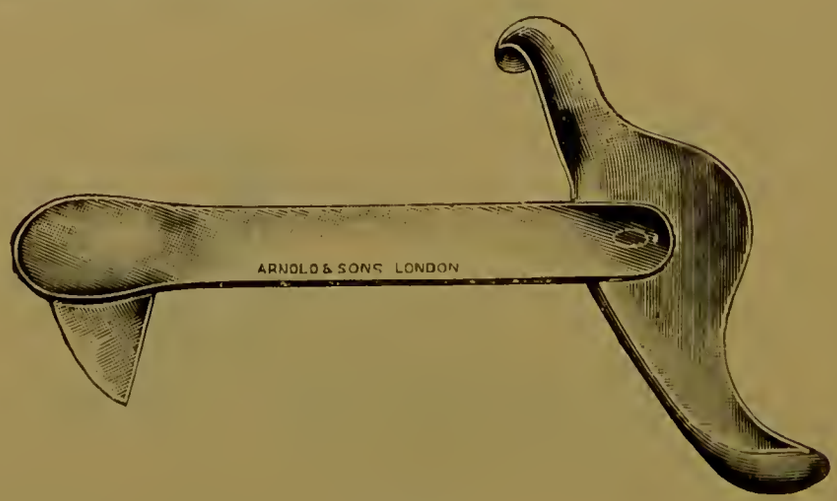


Fig. 636.

Embryotomy Knife, aseptic, with handle to take apart, Fig. 636 ...	0	6	6

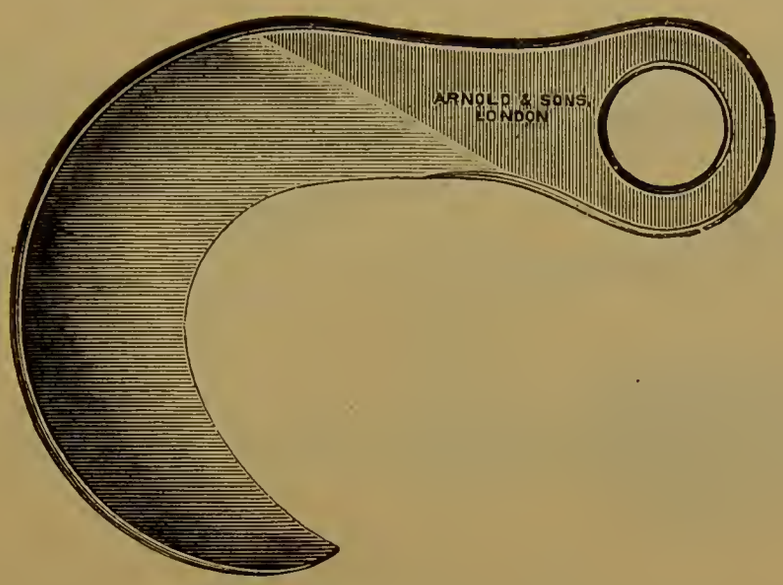


Fig. 637.

	£	s.	d.
Embryotomy Knife (McGavin's), Fig. 637	0	3	6
Ditto ditto (Stainton's)	0	7	6

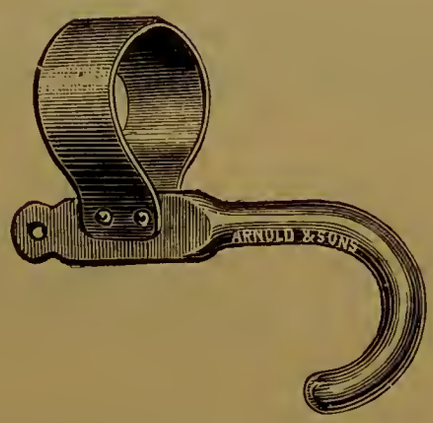


Fig. 638.

Embryotomy Hook (Fisher's), Blunt, with finger ring, Fig. 638 ...	0	3	6

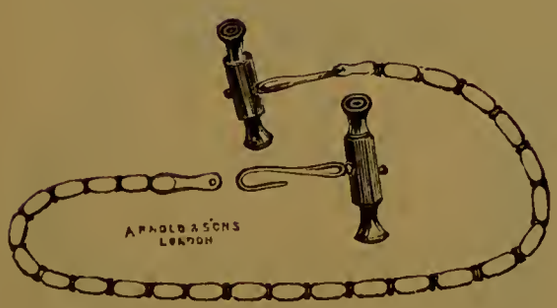


Fig. 639.

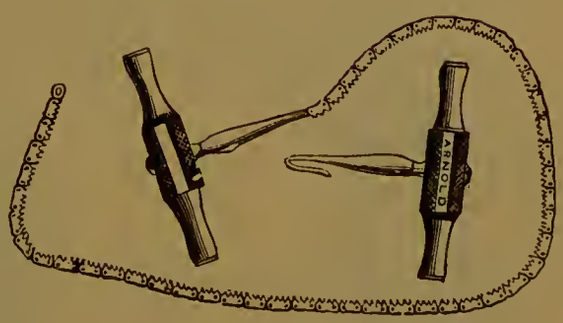


Fig 640.

Embryotomy Chain Sector (Hoole's), with handles, Fig. 639 ...	1	7	6
Ditto ditto Saw ditto ditto Fig. 640 ...	1	10	0
Ditto ditto ditto and Sector both fitting same handles, complete, Figs. 639 and 640	2	15	0

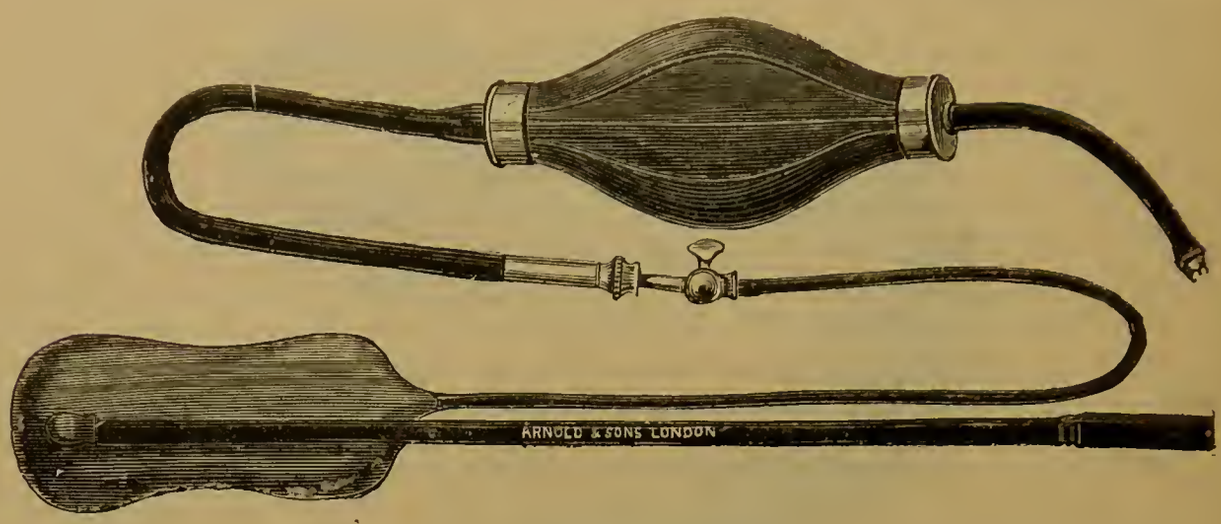


Fig. 641.

	£	s.	d.
Os Uteri Dilators (West's), Fig. 641, consisting of:—			
Three Dilating Bags, with stopcocks, of sizes.			
Inflating Syringe.			
Whalebone introducer.			
The above set in leather case, complete	2	0	0

This apparatus is most valuable, as it enables dilatation of the os uteri when all other means have failed.

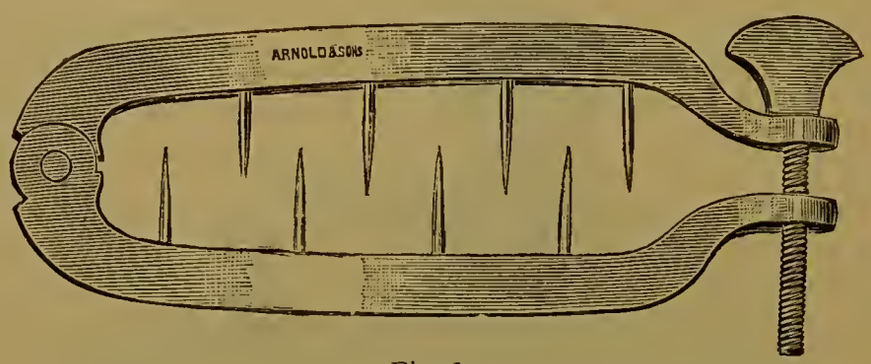


Fig. 642.

	£	s.	d.
Prolapsus Clamps (West's), steel, nickel-plated, four sizes, for cows, mares, sheep, pigs, &c., Fig. 642			
each No. 1 4s. 6d., No. 2 5s. 6d., No. 3 6s. 6d., No. 4	0	7	6
Ditto ditto ditto per set of 4, complete	1	1	0
Ditto ditto ditto aluminium			
No. 1 6s. 6d., No. 2 7s. 6d., No. 3 8s. 6d., No. 4	0	9	6

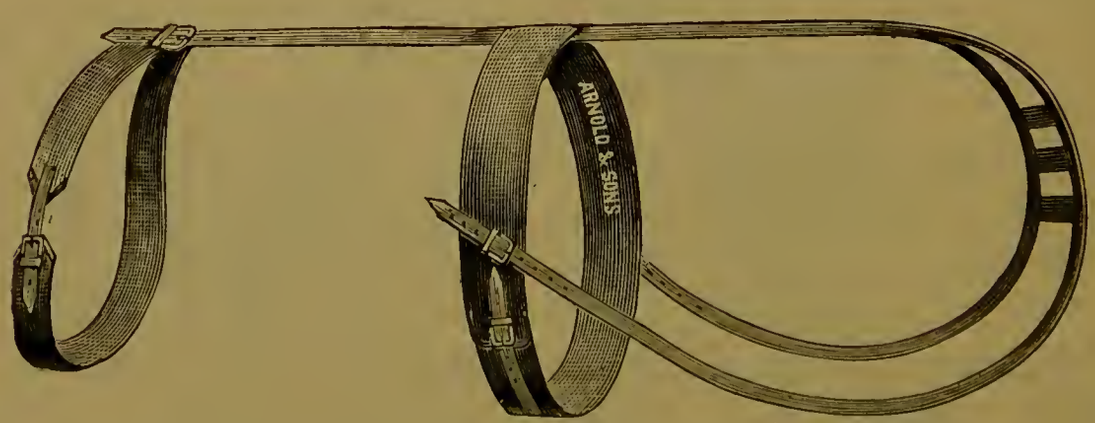


Fig. 643.

	£	s.	d.
Prolapsus Uteri Apparatus (Chattell's), Fig. 643	1	1	0
Ditto ditto plain pattern	0	8	6

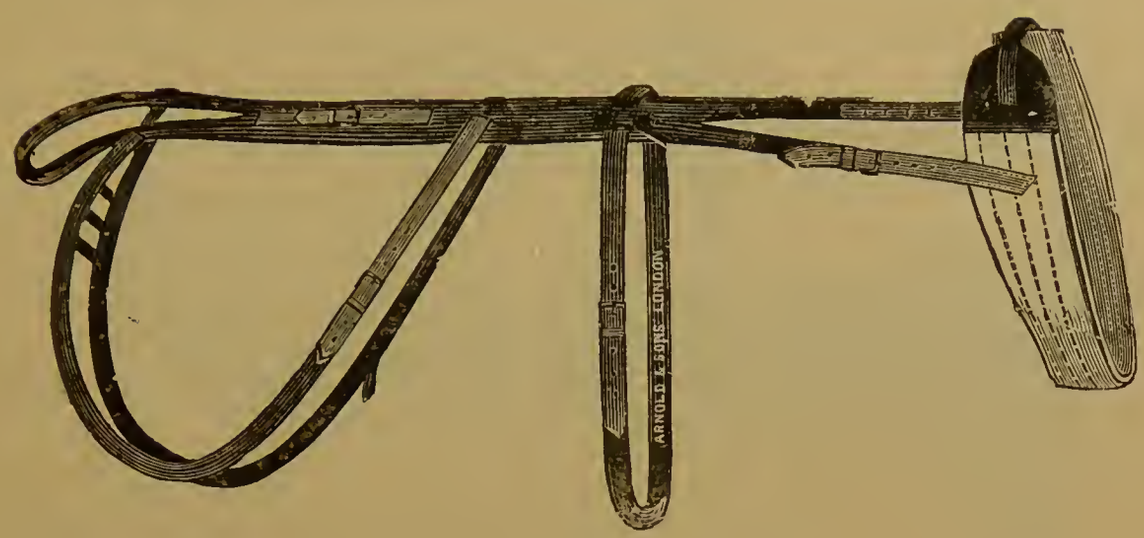


Fig. 644.

	£	s.	d.
Prolapsus Uteri Apparatus (Gowing's), Fig. 644	3	0	0

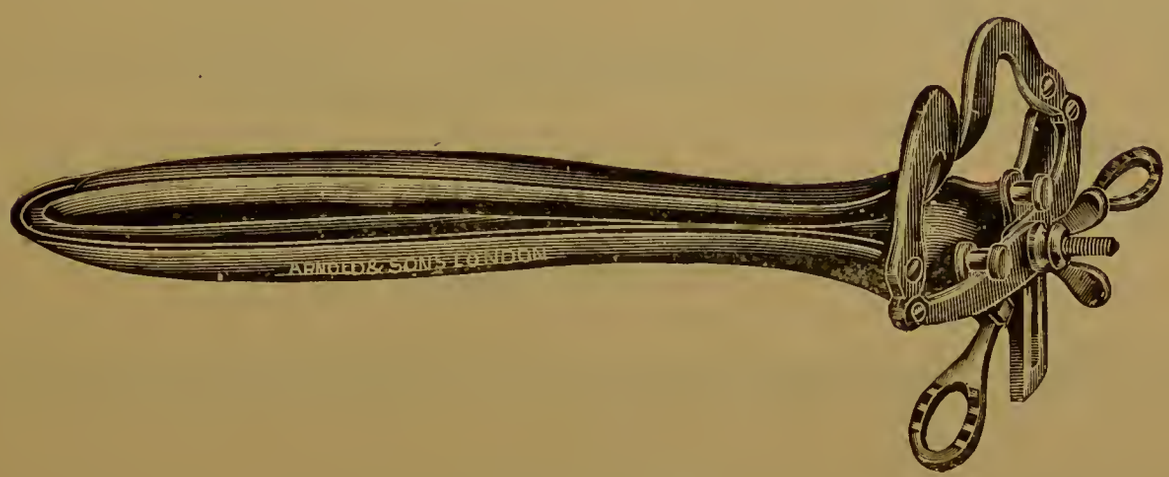


Fig. 645. (Closed.)

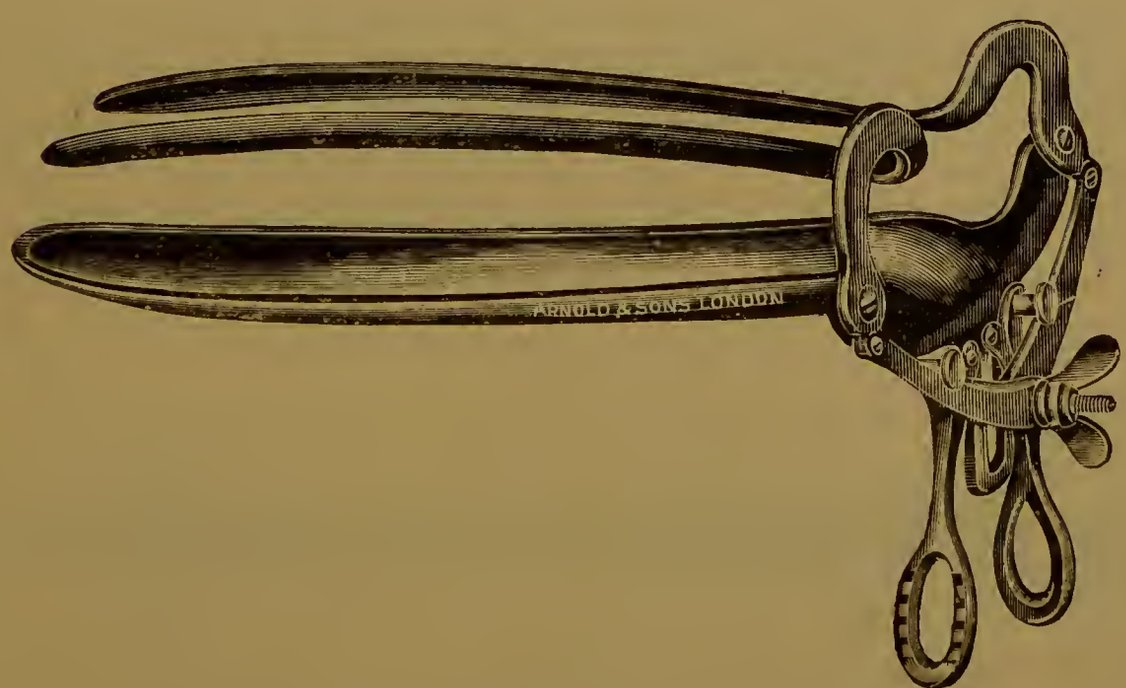


Fig. 646. (Open.)

Vaginal Dilating Speculum, nickel plated, Figs. 645 and 646 ...	3	3	0

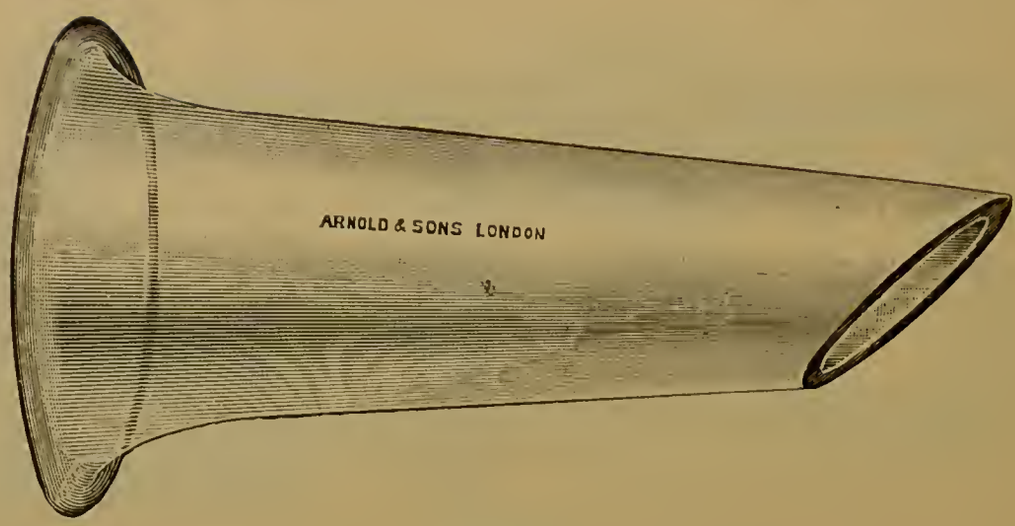


Fig. 647.

	£	s.	d.
Speculum, glass, for use with inseminator, 3 sizes, Fig. 647 each	0	7	6
Ditto ditto ditto ... ... per set of 3	1	1	0

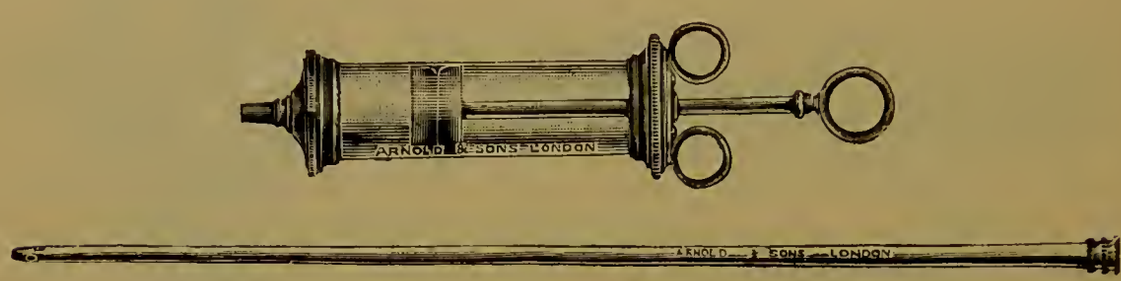


Fig. 648.

Inseminator (Hoadley's), with syringe, complete, Fig. 648 ... ... 0 15 0

Extract from "VETERINARY JOURNAL," March, 1899.

The above woodcut represents what we consider a great improvement to any yet introduced to the Veterinary profession.

The original idea of the syringe belongs to Messrs. ARNOLD AND SONS, but the addition of rings to be used with the plunger is ours; by the aid of these rings there is not the least difficulty in being able to use the instrument. The syringe we consider to be far preferable to a rubber ball. it is easily adjusted to the metal tube, and can be worked by one hand. One can at once see the quantity of semen taken up, and the syringe is easily taken to pieces for cleaning.

The instrument is made by Messrs. ARNOLD AND SONS, London.

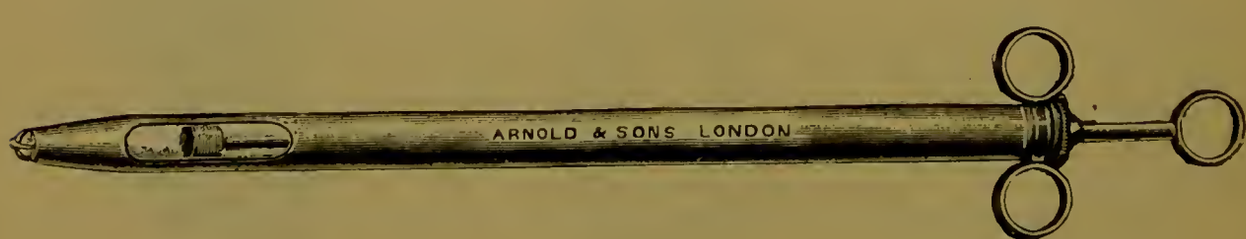


Fig. 649.

Inseminator (Arnold & Sons' Improved), Registered, fitted with asbestos piston, Fig. 649 ... ... 1 1 0

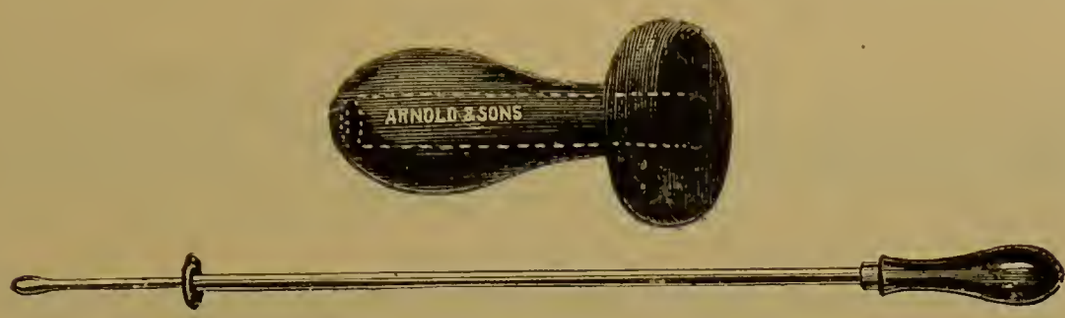


Fig. 650.

	£	s.	d.
Impregnators, india rubber, for barren mares, with introducer, Fig. 650 ... ... per set of 4	1	5	0

The above is intended to be introduced into the os uteri and retain the opening in a horizontal position, thus rendering complete and successful copulation.

Fig. 651.

Uterine Dilator, nickel-plated, Fig. 651	4	10	0

Fig. 652.

Uterine Vulsellum Forceps, with rack and take-apart joint, nickel-plated, Fig. 652	1	7	6

Fig. 653.

Uterine Dressing Forceps, with rack and take-apart joint, nickel-plated, Fig. 653	1	7	6

Fig. 654.

	£	s.	d.
Uterine Scissors, curved on flat, extra long, with take-apart joint, nickel-plated, Fig. 654	1	0	0

Fig. 655.

Uterine Hook, sharp, with metal handle, nickel-plated, Fig. 655 ...	0	12	6

Fig. 656.

Uterine Curette, serrated, with metal handle, nickel-plated, Fig. 656	0	15	0

Fig. 657.

Uterine Applicator, flexible copper, with metal handle, nickel-plated, Fig. 657	0	10	6

Fig. 658.

Uterine Sponge Holder, sliding, with metal handle, nickel-plated, Fig. 658	1	1	0

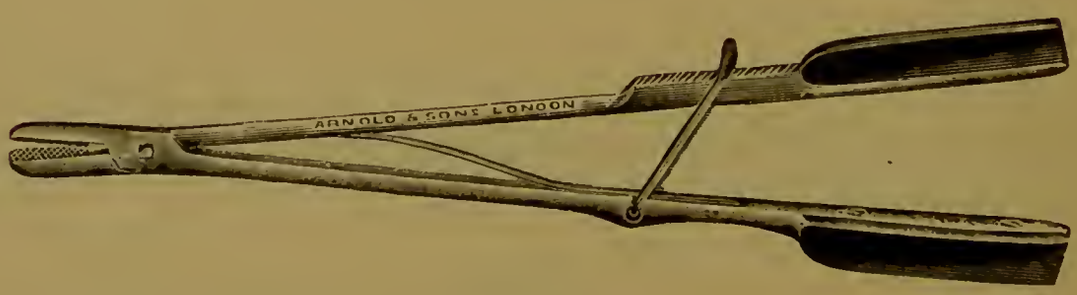


Fig. 659.

Uterine Needle Holder, with metal handle, nickel-plated, Fig. 659	1	1	0

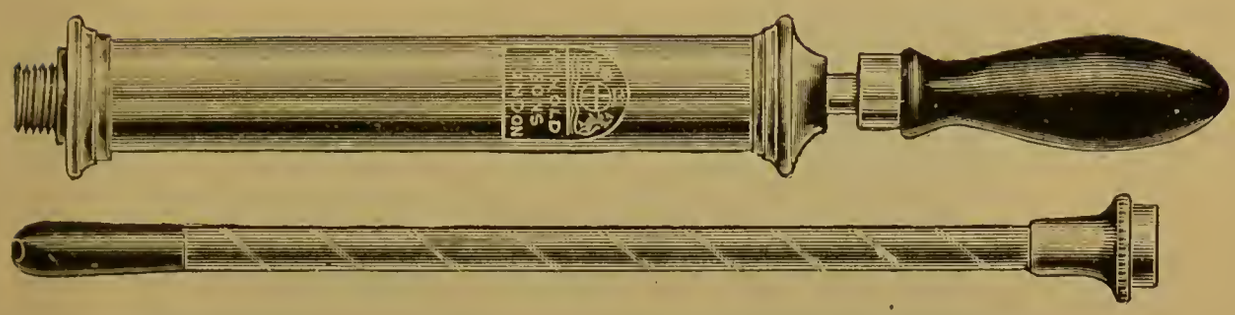


Fig. 660.

	£	s.	d.
Uterine Syringe, brass, with long gum elastic tube for washing out uterus, Fig. 660 ... ... 1 pint	0	12	6

Ophthalmic Instruments.

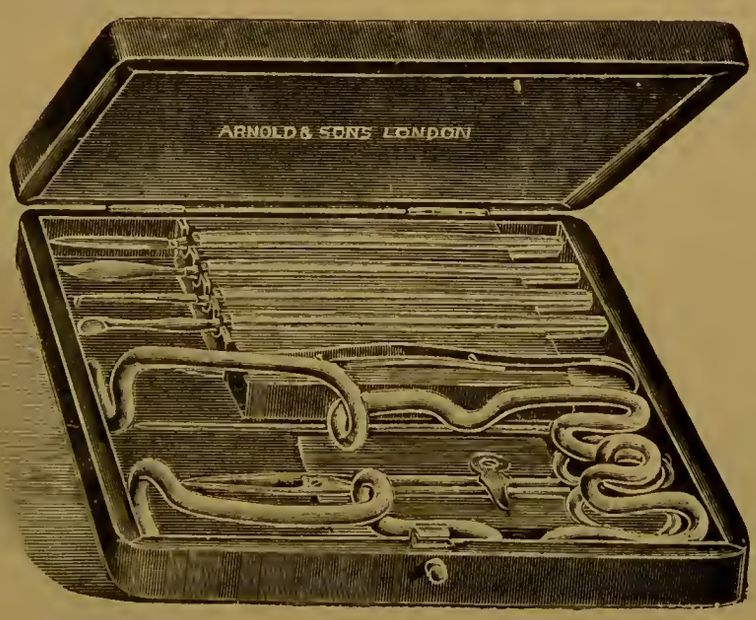


Fig. 661.

Eye Instruments, Fig. 661, containing :—

Graefe's Cataract Knife.	Spring Speculum.
Fixation Forceps.	Iris Scissors.
Curette.	Cataract Needle.
Cystotome.	Lachrymal Probe.

The above set in leather case, complete	1	17	6

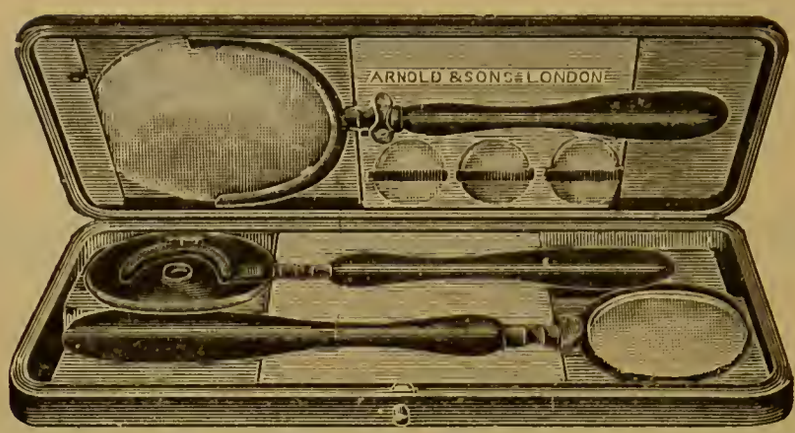


Fig. 662.

	£	s.	d
Ophthalmoscope (Major Smith's), in leather case, complete, Fig. 662	1	15	0

Fig. 663.

Ophthalmoscope (Prof. Brown's), for students' use, in leather case, Fig. 663	0	5	6

Fig. 664.

Fig. 665.

Ophthalmoscope (Arnold & Sons' improved portable), in vulcanite case, for the pocket, Fig. 664	0	7	6
Ditto (Bader's), in leather case, Fig. 665	0	10	6

Fig. 666.

Fig. 667.

	£	s.	d.
Ophthalmoscope, with reflector and magnifying lens, in leather case, Fig. 666	0	12	6
Ditto (Liebreich's), with two large and five small lenses, in leather case, complete, Fig. 667	0	12	6

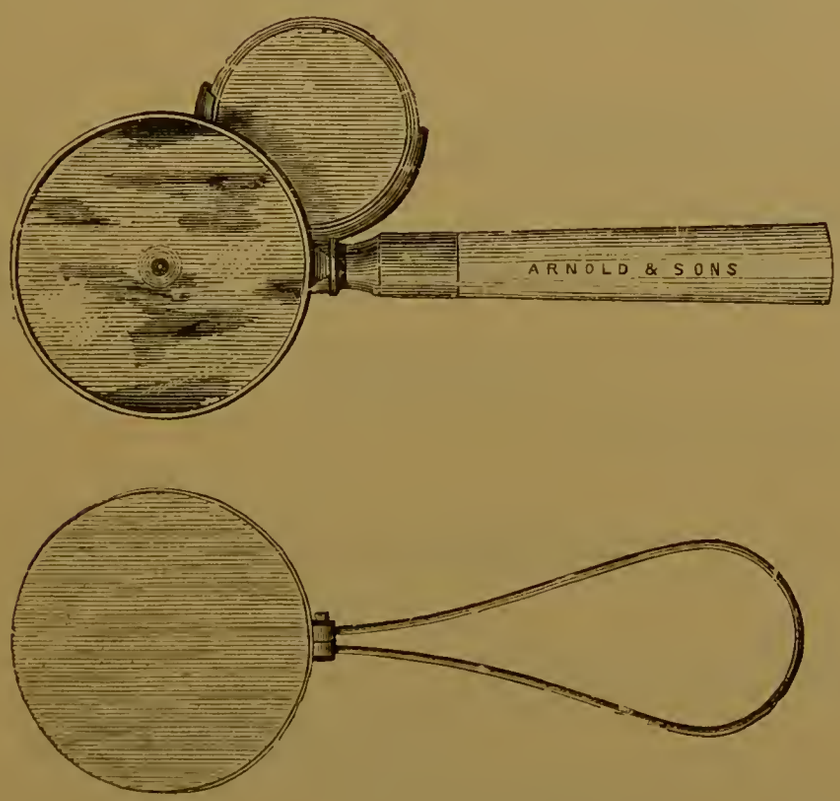


Fig. 668.

Ophthalmoscope (Prof. Brown's), with lenses, &c., in portable leather case, complete, Fig. 668	1	1	0

Fig. 669.

	£	s.	d.
Cataract Knife (Graefe's), broad, in ivory handle, Fig. 669 ...	0	4	6

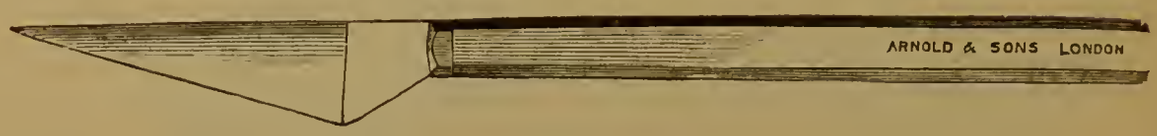


Fig. 670.

Cataract Knife (Beer's), in ivory handle, Fig. 670	0	5	0

Fig. 671.

Scalpels, assorted sizes, in ivory handles, Fig. 671	0	4	0

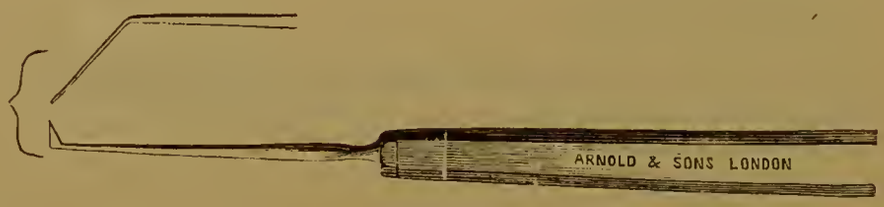


Fig. 672.

Cystotome (Graefe's), in ivory handle, Fig. 672	0	4	6

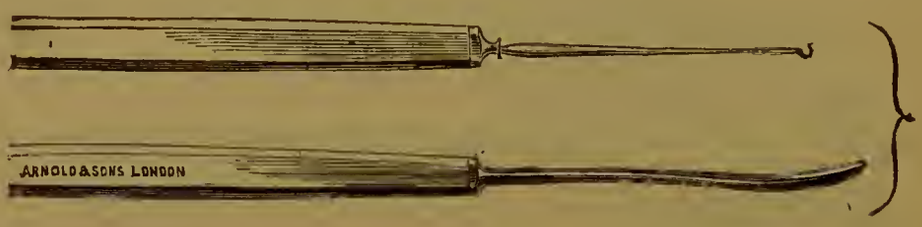


Fig. 673.

Hook and Curette, combined, in ivory handle, Fig. 673	0	8	0

Fig. 674.

Iris Hook (Tyrrell's), in ivory handle, Fig. 674	0	4	0

Fig. 675.

Fixation Hook (Guthrie's) in ivory handle, Fig. 675	0	5	6

Fig. 676.

	£	s.	d.
Cataract Needle, in ivory handle, Fig. 676	0	4	6

Fig. 677.

Cataract Needle (Beer's), in ivory handle, Fig. 677	0	4	6

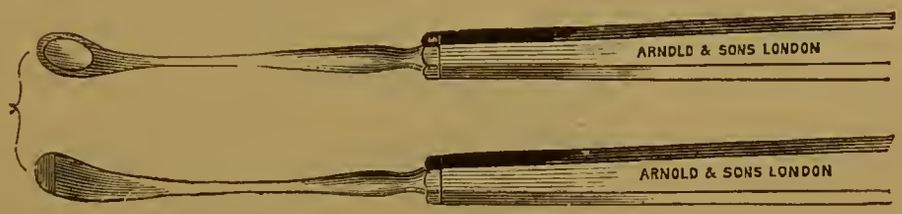


Fig. 678.

Cataract Spoon (Bowman's), Double, silver, in ivory handle, Fig. 678	0	10	0

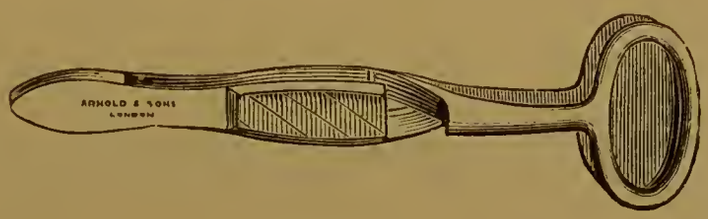


Fig. 679.

Entropium Forceps, cross-action, Fig. 679	0	7	6

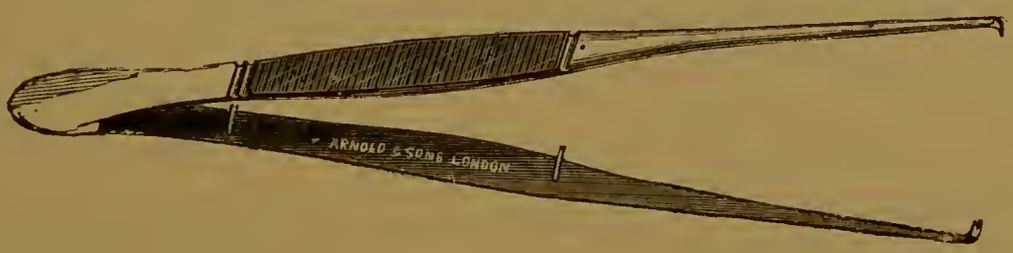


Fig. 680.

Fixation Forceps, with double teeth, Fig. 680	0	5	0

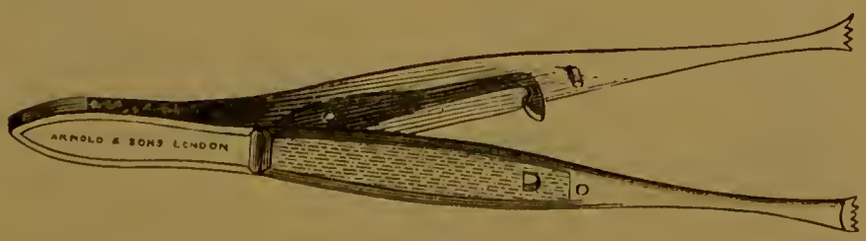


Fig. 681.

Fixation Forceps, spring catch, Fig. 681	0	7	6

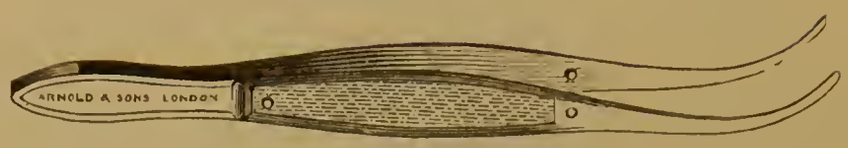


Fig. 682.

	£	s.	d.
Iris Forceps, curved, Fig. 682	0	4	6

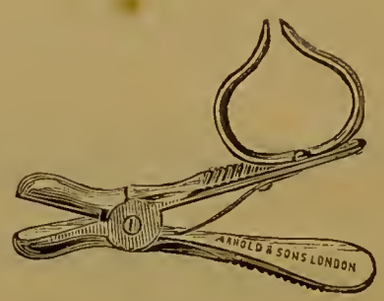


Fig. 683.

Needle-holding Forceps, improved, with finger ring, Fig. 683 ...	0	5	0

Fig. 684.

Eyelid Retractor (Desmarre's), three sizes, in ivory handles, Fig. 684 each	0	5	6

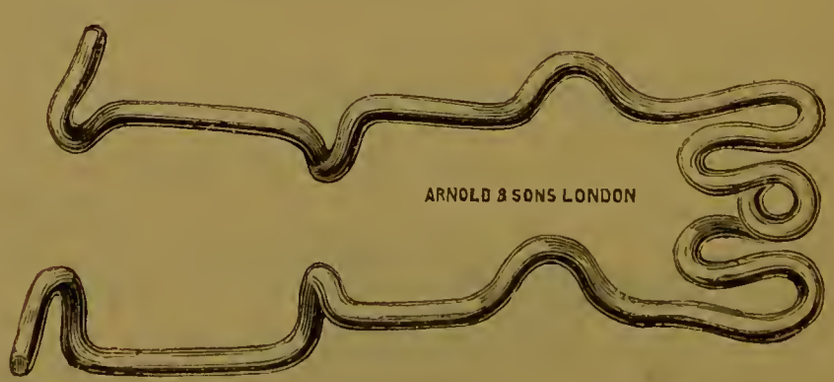


Fig. 685.

Speculum (spring), plated, for keeping eyelid open, Fig. 685 ...	0	6	0

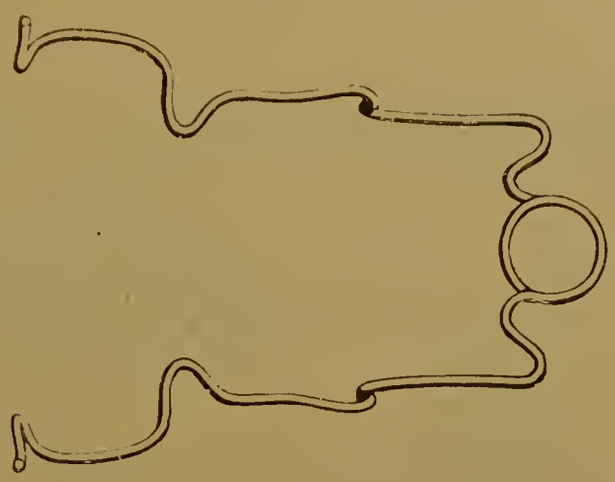


Fig. 686.

	£	s.	d.
Speculum (spring), for dogs, silver, for keeping eyelid open, Fig. 686	0	3	0

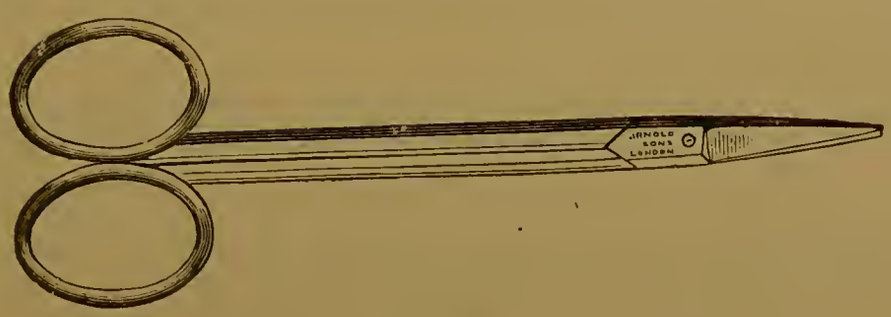


Fig. 687.

Iris Scissors, straight, sharp-pointed, Fig. 687	0	4	6

Fig. 688.

Iris Scissors, curved on flat, sharp-pointed, Fig. 688	0	6	6

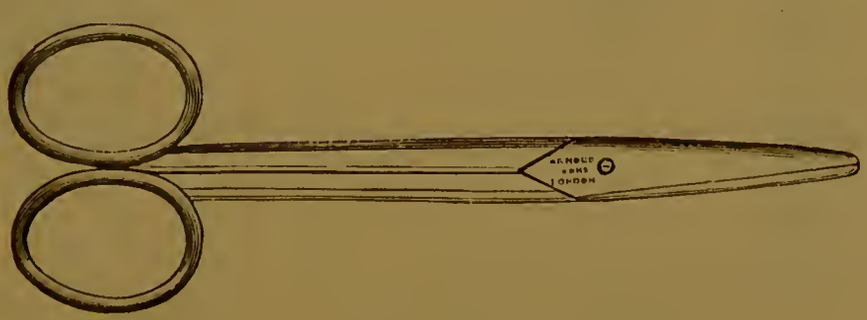


Fig. 689.

Strabismus Scissors, straight, round-pointed, Fig. 689	0	4	6

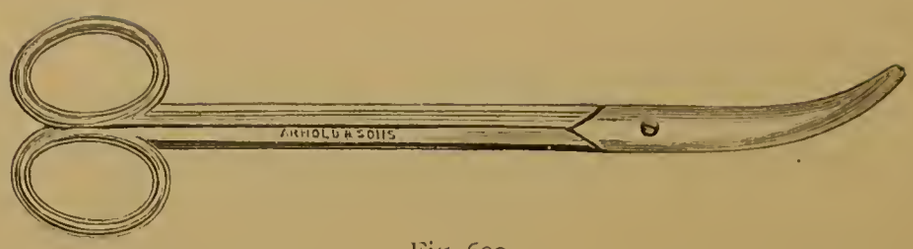


Fig. 690.

		£	s.	d.
Strabismus Scissors, curved on flat, round pointed, Fig. 690	...	0	6	6

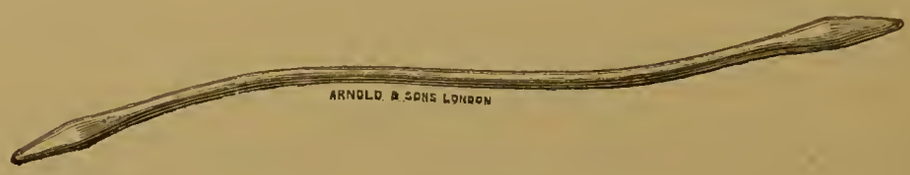


Fig. 691.

Lachrymal Probes (Couper's), double, three sizes, Fig. 691	each	0	2	6

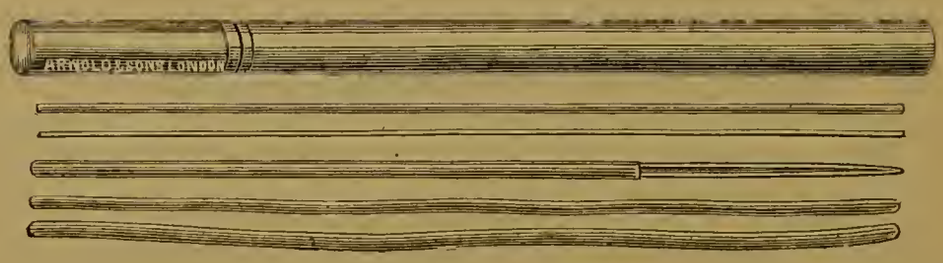


Fig. 692.

Lachrymal Probes (Bowman's), silver, set of four, in plated case, Fig. 692		0	6	6

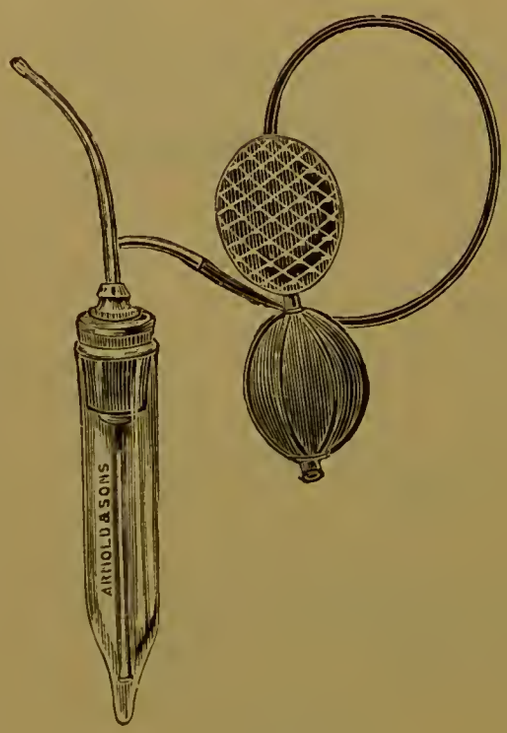


Fig. 693.

Fig. 694.

Cocaine or Ether Spray, for local anæsthesia, complete, Fig. 793 ...		0	7	6
Drop Bottle (Chalk's), with india-rubber cap, Fig. 694		0	1	6

Fig. 695.

Fig. 696.

	£	s.	d.
Artificial Eyes (Major Smith's), metal, covered celluloid, for horses, assorted sizes, Fig. 695 ... ... each	0	5	0
Ditto for dogs, &c., prices various.			
Spectacles for Horses, to remedy shying, and to promote high stepping, with straps, complete, Fig. 696	1	10	0

It is not high-stepping, however, which has induced us to investigate this subject, but Defective Sight. There can be no doubt but that Myopic Sight—commonly known as "Short Sight"—and other peculiarities of vision are to be found among horses as well as human beings, and it is more than probable that shying is the result of short sight, for under such conditions things in the distance are not seen clearly, and the animal starts when strange objects come suddenly within the focus of its sight, while those with normal vision become acquainted with distant objects, and pass them without fear.

Spectacles, when properly constructed, do not look unsightly on the horse, certainly much less so than the band which is frequently placed over the eyes of a shying horse. The glasses are of a deep saucer shape, completely covering the eye; they can be attached to the inside of and standing at right angles to the "blinkers," and kept in their places by means of thin straps.

Spectacles for Horses, with wire gauze frames, to prevent flies, &c., getting into the eyes	1	10	0
Eye Cradle for horses	0	16	0

Lithotomy Instruments.

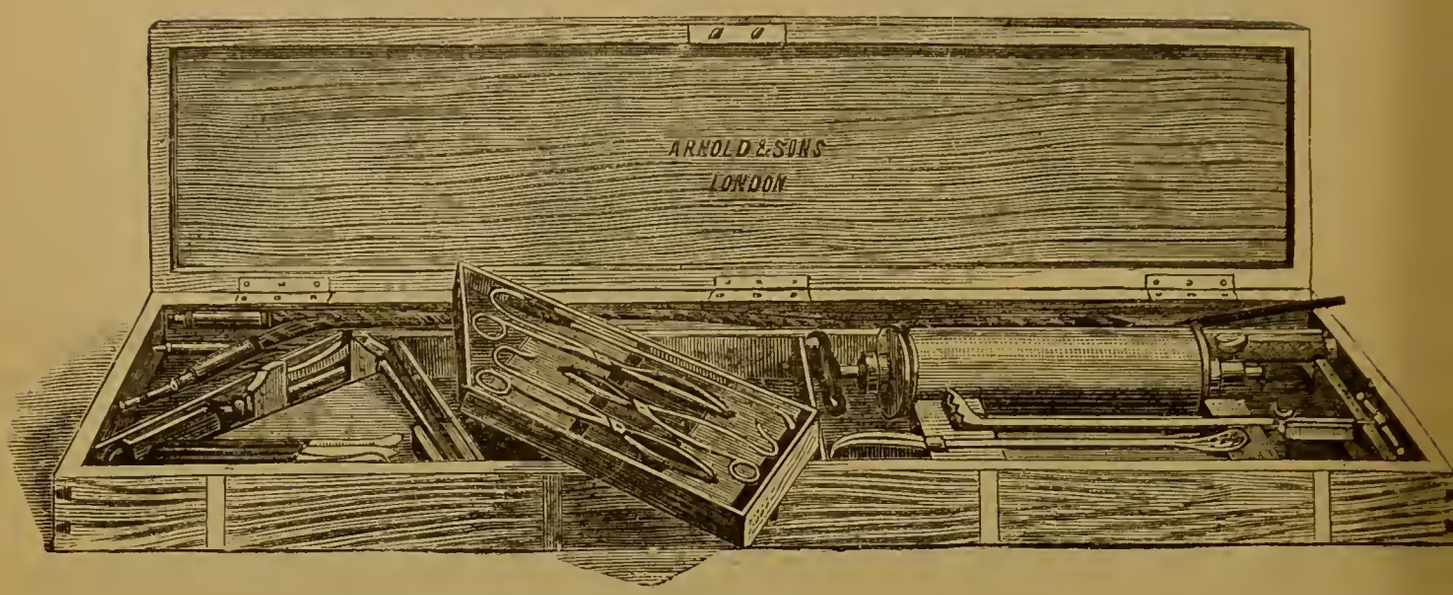


Fig. 697.

Lithotomy Instruments (Prof. Axes'), Fig. 697, containing :—

Lithotomy Forceps, for soft calculi.
Ditto ditto for hard calculi.
Ditto ditto small.
Lithotrite, Improved, with screw action.
Dilator, three-bladed ditto
Lithotomy Sound.
Whalebone Staff, grooved.
Drainage Tube, elastic gum, with silver mount.
Lithotomy Knife, sharp pointed.
Ditto probe ditto
Perineal Needle, curved, in ebony handle.
Whalebone Probe, long and stout, 15 inch.
Lithotomy Scoop, in ebony handle.
Double Channel Catheter for horse.
Ditto ditto for mare.
Brass Syringe, with stopcock.

	£	s.	d.
The above set, in brass bound mahogany case, complete	24	10	0

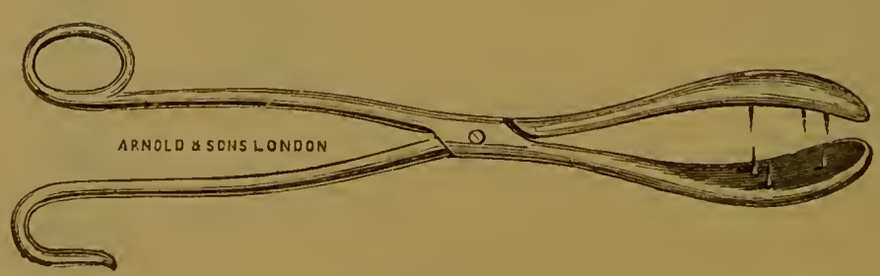


Fig. 698.

Lithotomy Forceps (Prof. Axes'), for soft calculi, Fig. 698	1	1	0

The above has spikes thrown out from the inner face of the jaws so as to penetrate the crust of a soft calculus and gain a grip of the harder nucleus, thus obviating the risk of the stone breaking away in the act of removal.

Fig. 699.

	£	s.	d.
Lithotomy Forceps (Prof. Axes') for hard calculi, Fig. 699	1	1	0

Fig. 700.

Lithotrite (Prof. Axes'), with screw action, Fig. 700	7	7	0

The above has central and lateral serrations of the jaws, by which a greater disintegrating power is obtained at a less expense of force than is required in the old-fashioned instrument.

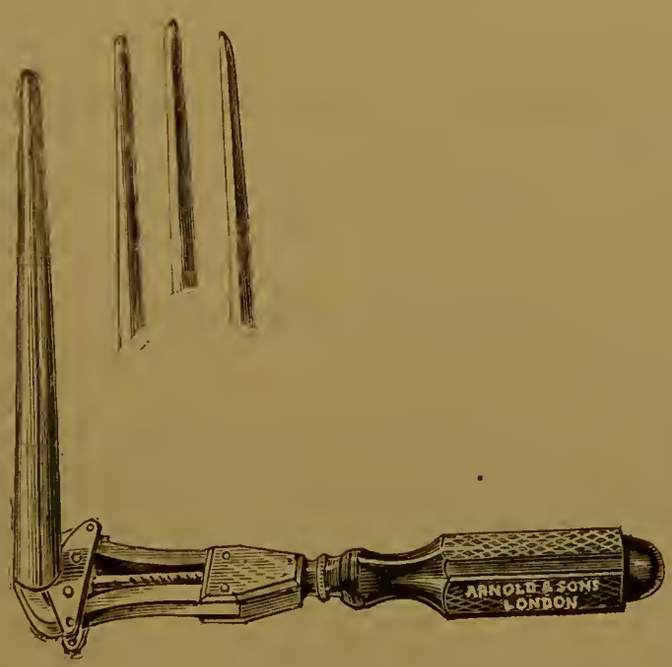


Fig. 701.

Dilator (Prof. Axes'), three-bladed, with screw action, Fig. 701 ...	3	0	0

Fig. 702.

Lithotomy Knife (Prof. Axes'), sharp-pointed, Fig. 702	0	4	6

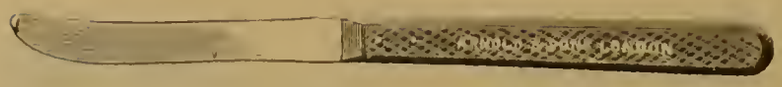


Fig. 703.

	£	s.	d.
Lithotomy Knife (Prof. Axes'), blunt-pointed, Fig. 703	0	4	6

Fig. 704.

Lithotomy Sound (Prof. Axes'), for searching the bladder through the perineal wound, Fig. 704	0	7	0

Fig. 705.

Lithotomy Scoop (Prof. Axes'), Fig. 705	0	15	0

Fig. 706.

Lithotomy Staff (Prof. Axes'), grooved whalebone, Fig. 706 ...	0	15	0

Fig. 707.

Lithotomy Drainage Tube (Prof. Axes'), elastic gum, with silver mount, Fig. 707	0	6	6

Fig. 708.

Perineal Needle (Prof. Axes'), in ebony handle, Fig. 708	0	4	6

Fig. 709.

	£	s.	d.
Whalebone Probe, extra stout, 15 inches, Fig. 709	0	3	0

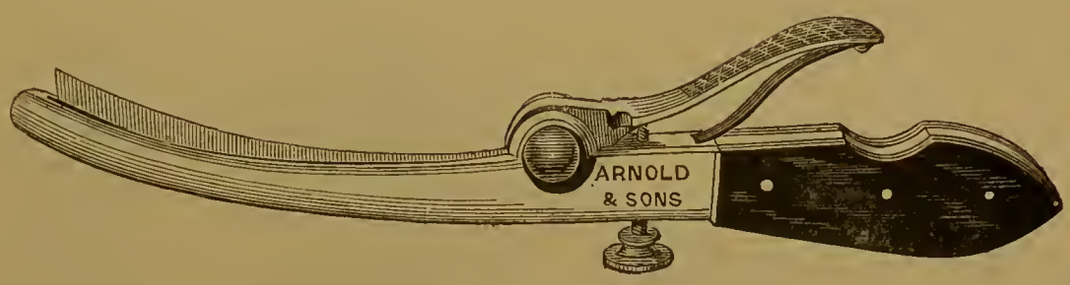


Fig. 710.

Bistoury Cachée (Arnold & Sons'), with regulating screw, to cut any depth required, Fig. 710	1	1	0

Teat Instruments, &c.

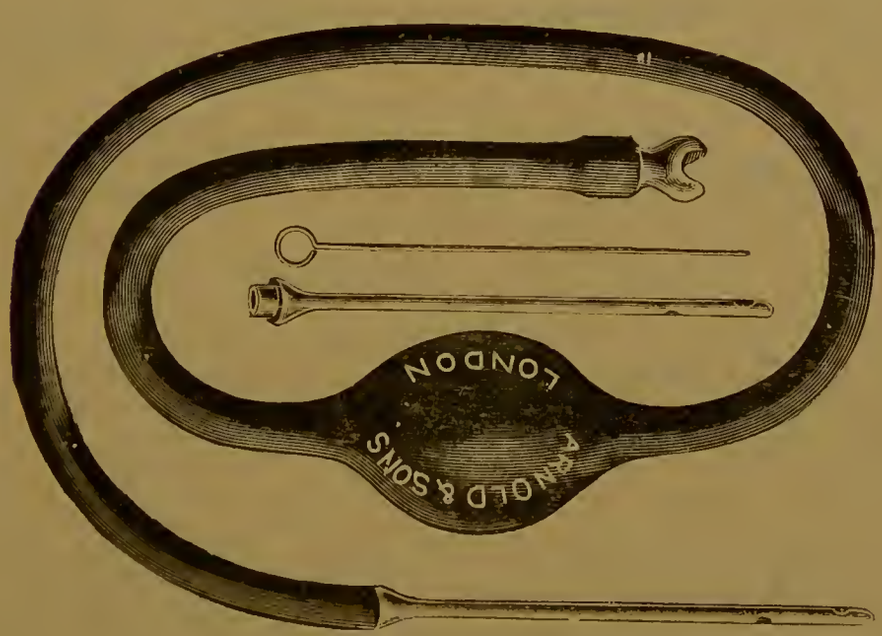


Fig. 711.

Syringe, "Reliance" (Registered), for treatment of milk fever (Schmidt's system), in cedar box, complete, Fig. 711	0	5	0

Fig. 712.

	£	s.	d.
Milking Tube, with rings, for cows, sheep, &c., assorted sizes, Fig. 712 ... ... each	0	1	0
Ditto ditto ditto ... ... per doz.	0	10	6

Fig. 713.

Milking Tube, with shield, assorted sizes, Fig. 713 ... ... each	0	1	3
Ditto ditto ditto ... ... per doz.	0	12	6

Fig. 714.

Milking Syphon (Arnold & Sons' improved), assorted sizes, Fig. 714 ... ... each	0	1	9
Ditto ditto ditto ... ... per doz.	0	18	0

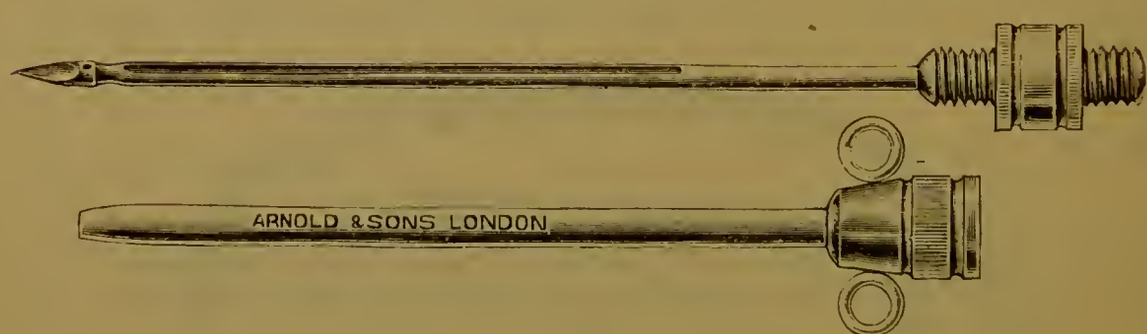


Fig. 715.

Milking Syphon (Walley's), combined with trocar and cannula, exploring needle and director, Fig. 715	0	5	6
Self-Acting Cow Milker ... ... per set of four	0	6	0

Fig. 716.

Bistoury Cachée, for cutting strictures in cow's teats, Fig. 716 ...	0	14	6

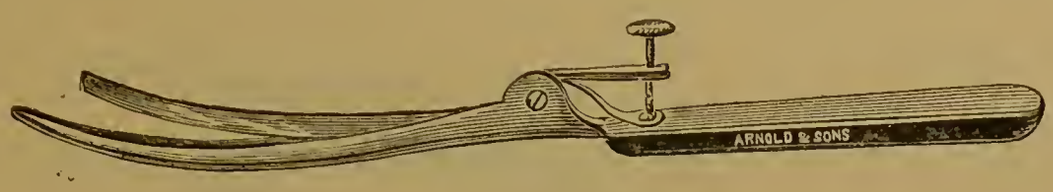


Fig. 717.

	£	s.	d.
Bistoury Cachée, for cutting strictures in cow's teats, Fig. 717 ...	0	12	6

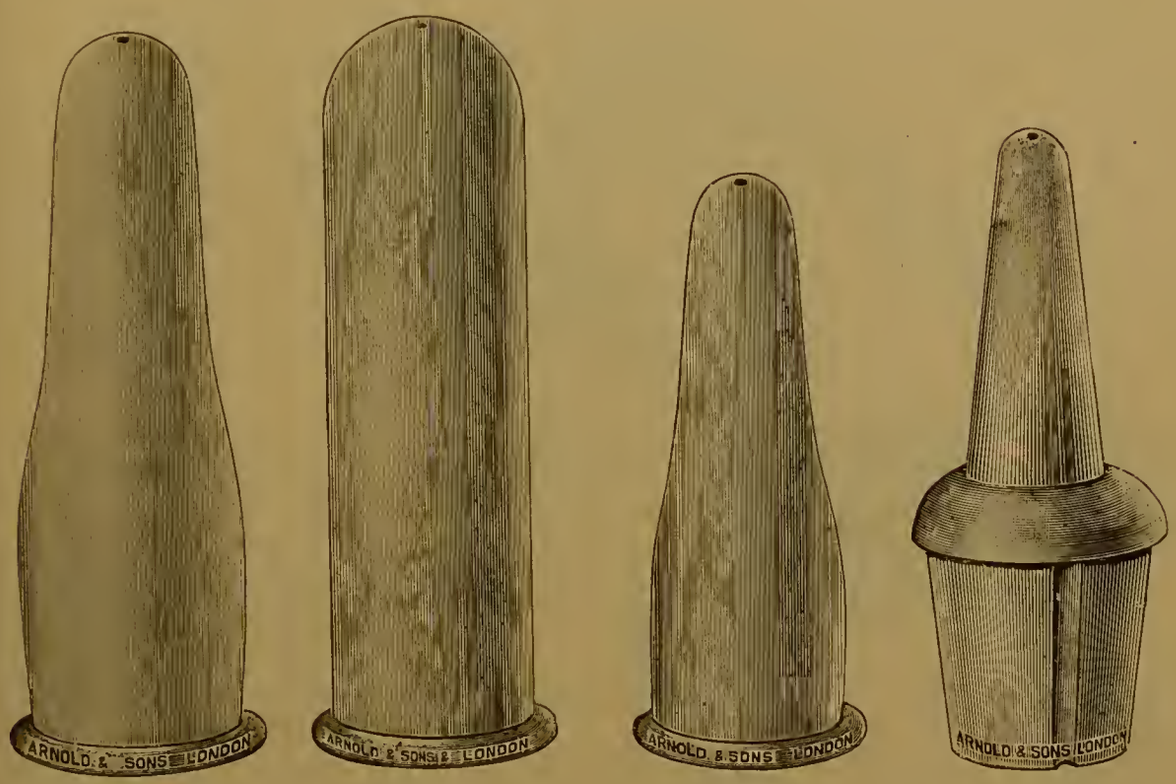


Fig. 718. Fig. 719. Fig. 720. Fig. 721.

Calf Teats, India-rubber, Figs. 718 and 719...	each	0	0	6
Lamb Ditto ditto Fig. 720	ditto	0	0	3
Ditto ditto Fig. 721	ditto	0	0	6
Lactometers, for testing milk	1s. 3d. and	0	2	6

Drenching Bits, Bottles, Horns, &c.

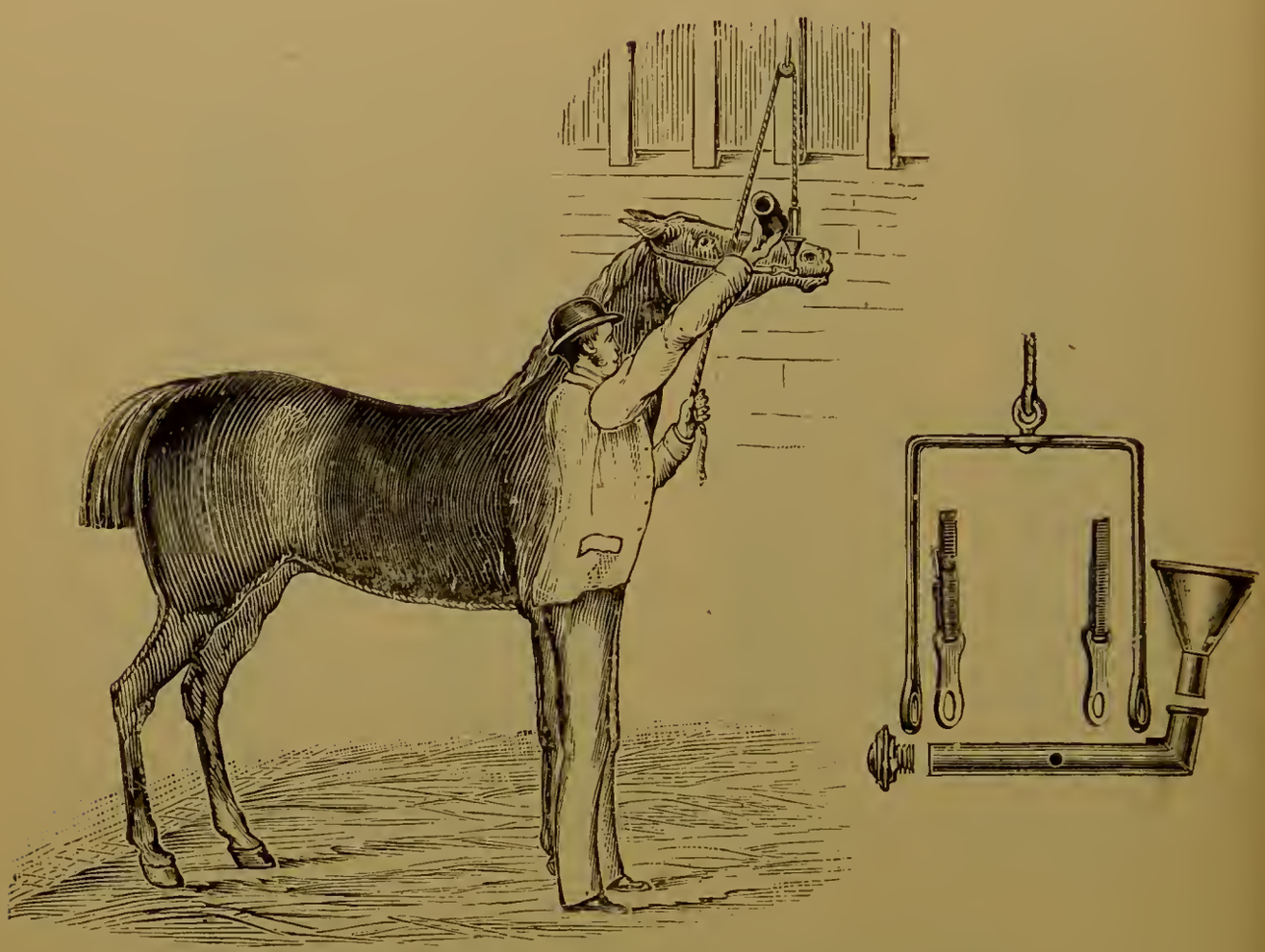


Fig. 722.

	£	s.	d.
Drenching Bit, nickel-plated, with strap and rope complete, Fig. 722	0	15	0

Amongst the numerous advantages of this useful and necessary invention, may be mentioned the following :—

1. Administering medicine to a horse or cow in a liquid form.
2. Administering gradually and regularly without waste.
3. Administering stimulants preparatory to going out.
4. Stimulating and disinfecting throat and lungs.
5. Washing out the mouth when diseased or otherwise.

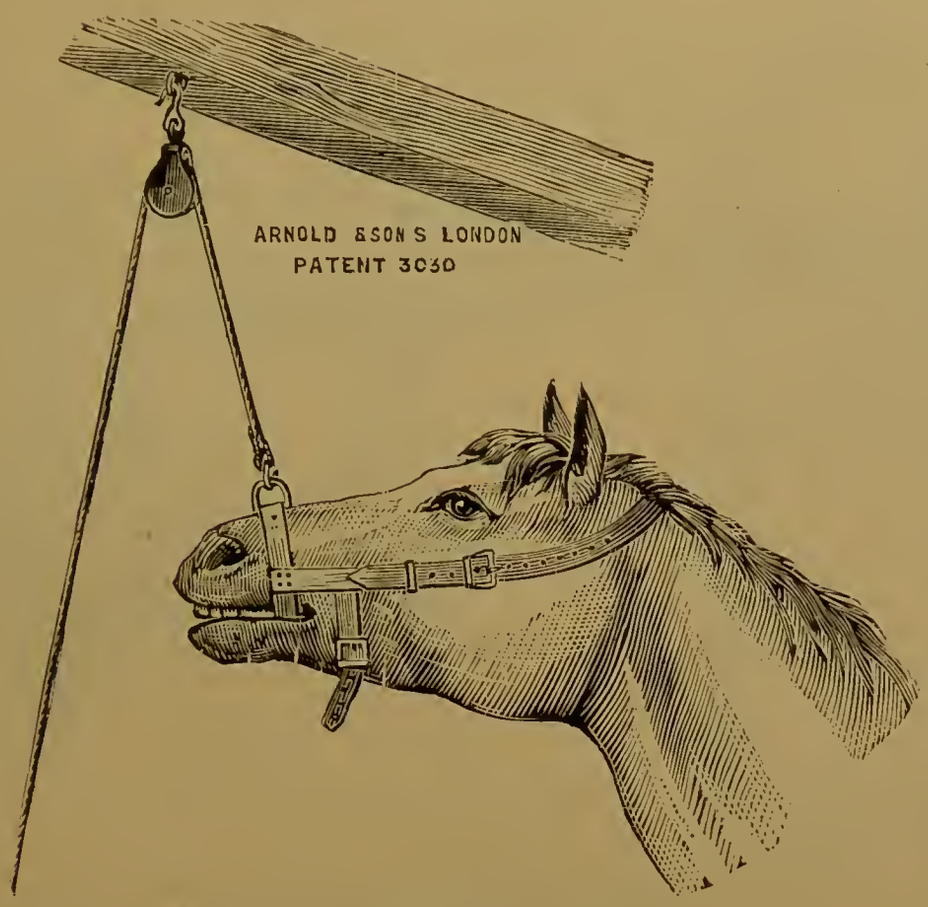


Fig. 723.

	£	s.	d.
Drenching Bridle (Frost's) with rope and pulley complete, two sizes Fig. 723 ... ... 6s. 6d. and	0	7	6

Extract from "THE VETERINARIAN."

By its aid one man can give a drink to any horse without assistance.

It is easily adjusted, simple, effectual, and causes the animal no pain, while it is useful for operations like clipping single-handed, or dressing a restive horse.

The holder fits in the mouth like a bridle, the flat leather pressing against the roof of the mouth between the incisors and molars, and presenting no impediment to the introduction of a bottle or balling gun. The strap under lower jaw should be somewhat loose, as a little freedom of the jaw is necessary.

Extract from "THE VETERINARY RECORD."

The accompanying sketch is that of a device for holding up the heads of horses and cattle whilst giving drinks, balls, paste, or any kind of medicine.

Messrs. ARNOLD & SONS, West Smithfield, London, are the sole agents for the sale of this appliance,

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COPY OF LETTER RECEIVED FROM THE DUKE OF MARLBOROUGH'S AGENT.

BLENHEIM PALACE,
WOODSTOCK.

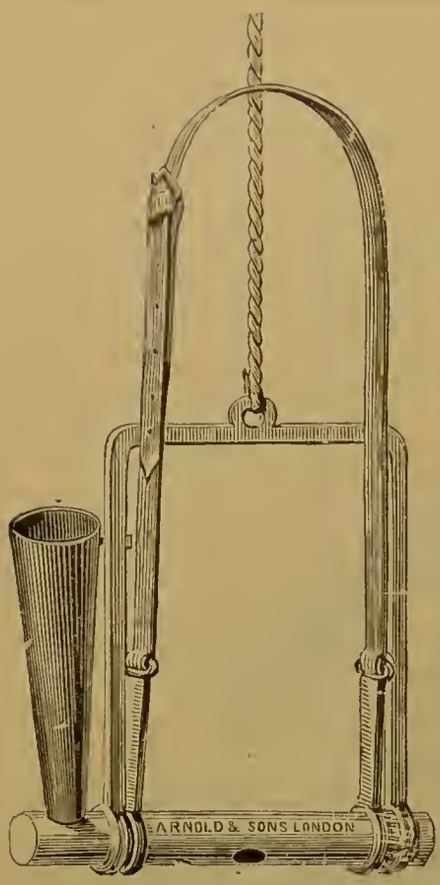
DEAR SIR,

Your Drenching Bridle is a first-rate invention, and if my name is of any use to you I hope you will quote it.

Yours faithfully,
R. L. ANGUS.

COPY OF LETTER RECEIVED FROM R. J. VERNEY, M.R.C.V.S.

I consider it a very useful requisite in any stable, as it enables one man to do easily that which otherwise two or three have some difficulty in doing.



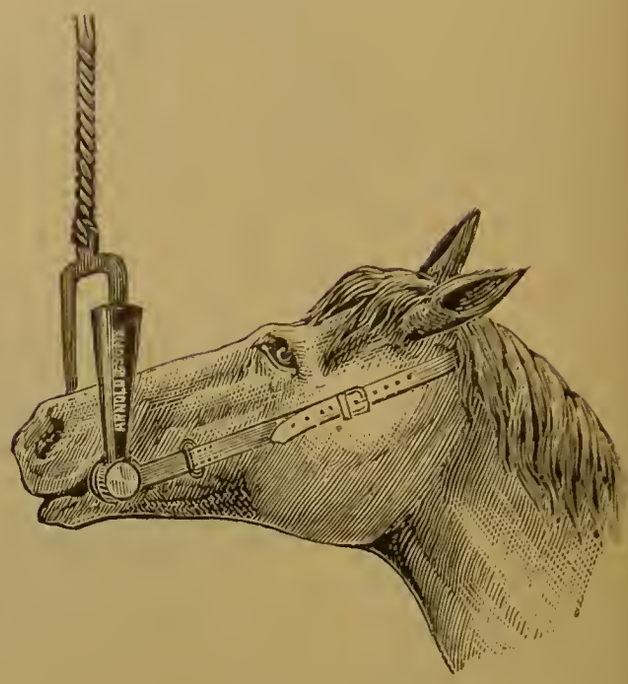


Fig. 724.

	£	s.	d.
Drenching Bit (Arnold & Sons' improved), with steel frame and funnel, strap and rope, complete, Figs. 724	1	5	0

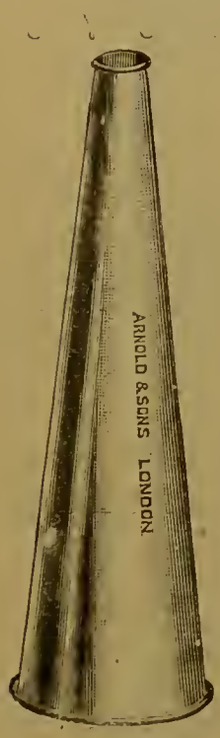


Fig. 725.

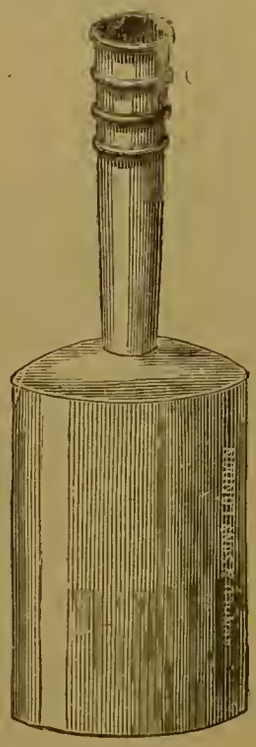


Fig. 726.

Fig. 727.

Fig. 728.

Drenching Tin, plain pattern, Fig. 725 ... ...1 pint	0	1	0
Ditto ditto ... ...1 quart	0	1	6
Ditto Fig. 726	0	2	0
Ditto as made for the Royal Veterinary College, Fig. 727	0	2	6
Ditto superior Japanned tin, with movable mouthpiece, for filling and cleaning, Fig. 728...	0	6	0

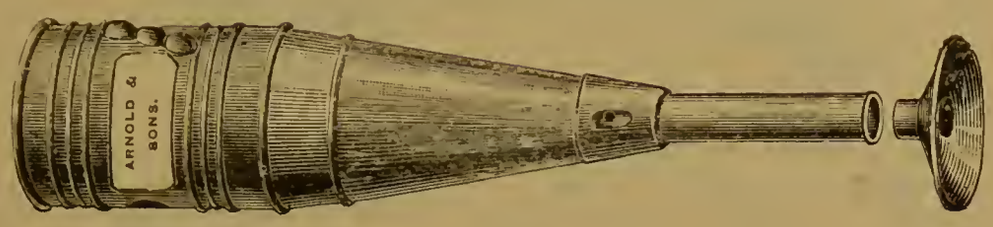


Fig. 729.

	£	s.	d.
Drenching Tin (Oldaker's patent), Fig. 729 ... ...1 quart	0	4	0
Ditto ditto ditto ... ...1½ pint	0	4	0
Ditto ditto ditto ... ... ½ pint	0	3	0

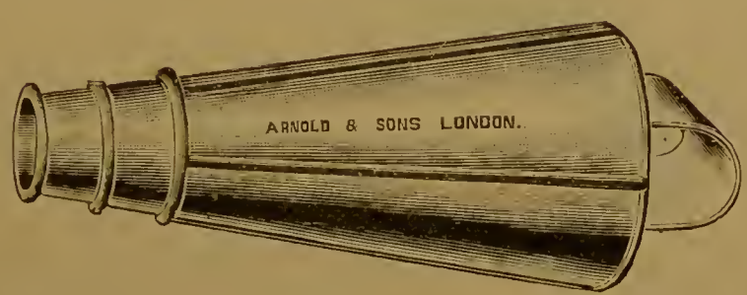


Fig. 729A.

Drenching Tin, small, with loop for using with stick, Fig. 729A ...	0	3	0

Fig. 730.

Drenching Horns, three sizes, Fig. 730 ... 1s., 1s. 3d., and	0	1	6

Fig. 731.

	£	s.	d.
Drenching Horn, with handle to unscrew, Fig. 731...	0	3	6

Fig. 732.

Drenching Horn (Arnold & Son's improved), large, Fig. 732 ...	0	2	6
Ditto ditto ditto small	0	2	0

Fig. 733.

Drenching Apparatus, for Dogs, glass, with India rubber tube and ivory pipe, Fig. 733	0	4	0

Aspirators, Trocars, &c.

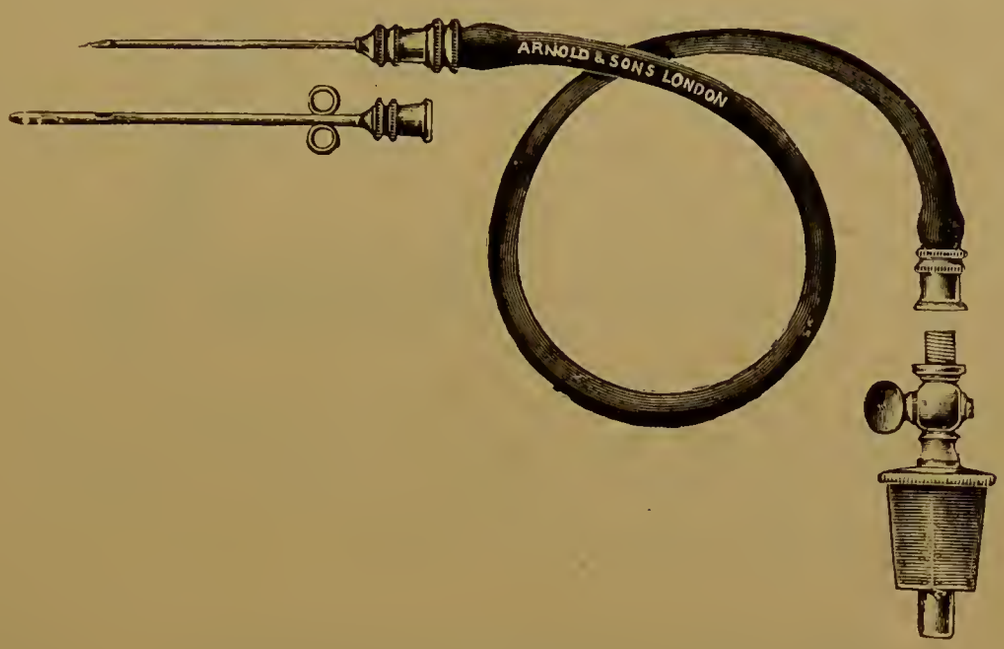


Fig. 734.

	£	s.	d.
Aspirator (Platt's), with needle and milking tube, in leather case, complete, Fig. 734	0	15	0

Vide "THE VETERINARY JOURNAL," June, 1898.

Extract from "THE VETERINARY RECORD," May 21st, 1898.

The aspirator consists of a tap with rubber cork to fit an ordinary wine bottle, the aspirating needle is connected to the tap by means of a rubber tube.

The aspirator is also fitted with a milk tube, and can be used as an exhauster in mammitis of the cow, it easily removes all the milk and clots from the udder, which is very difficult to do in the ordinary way owing to the tenderness of the gland and the restlessness of this animal.

To use the instrument—obtain an ordinary wine bottle, place in it about two or three drachms of æther sulph. meth., put in the cork with the tap open, then hold the bottle in a bucket of hot water, in a minute or two the ether begins to boil, expelling all the air from the bottle. When nearly all the ether has gone, withdraw the bottle from the hot water, close the tap, allow the bottle to cool and then plunge it into cold water. There is now a vacuum in the bottle. The needle and rubber tube are now connected to the tap. After the needle has been inserted into the subject the tap should be only opened slowly at first as the suction is very great.

The advantages of this instrument are—

1. It is simple in construction and cannot get out of order as the ordinary complicated aspirators.

2. It is light to carry; bottles to fit the instrument can be obtained at any house.

3. The cost is little as compared with other aspirators.

4. It can be used as an exhauster in mammitis of a cow. The clots of milk pass easily from the gland into the bottle.

It is made by Messrs. ARNOLD & SONS, London,

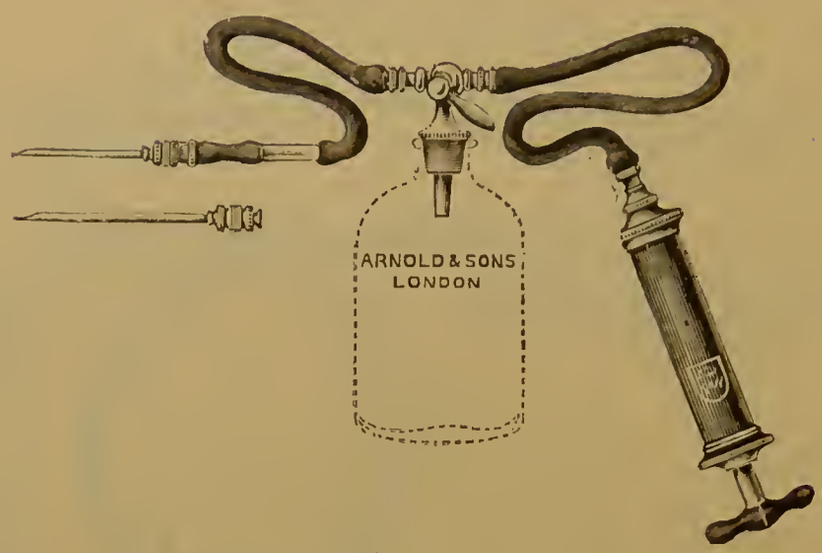


Fig. 735.

	£	s.	d.
Aspirator (Arnold & Sons' improved), with stop-cock and india-rubber cork to fit any size bottle, and two needles, in polished mahogany case, complete, Fig. 735	1	10	0

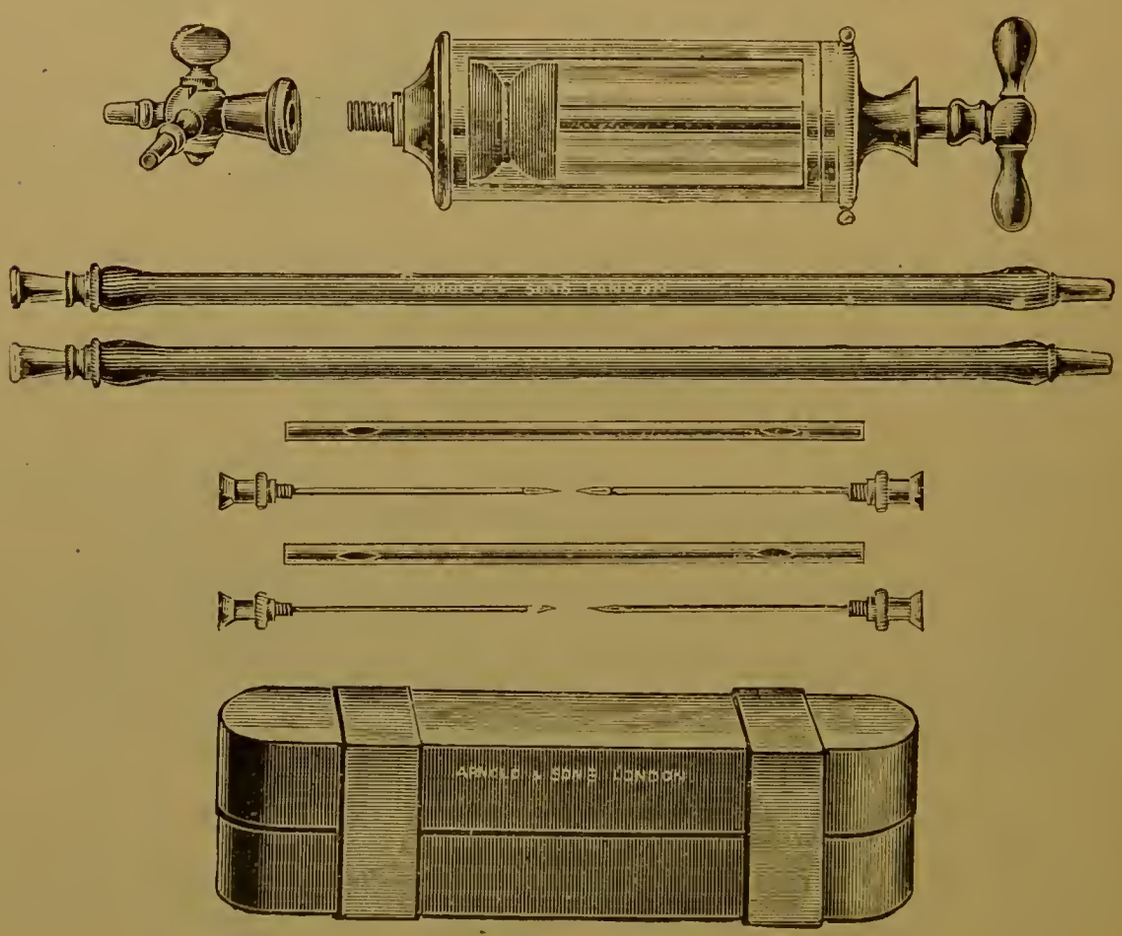


Fig. 736.

Aspirator, aseptic, in nickel-plated metal case, which forms a sterilizer, Fig. 736...	2	10	0

Fig. 737.

	£	s.	d.
Trocar, for hoven cattle, with German silver cannula, round, Fig. 737	0	5	0
Ditto ditto ditto ditto oval ...	0	6	6

Fig. 738.

Trocar, for sheep, with German silver cannula, Fig. 738	0	4	0
Ditto ditto ditto ditto small	0	3	0

Fig. 739.

Trocar, Hydrothorax, with German silver cannula, Fig. 739 ...	0	4	6

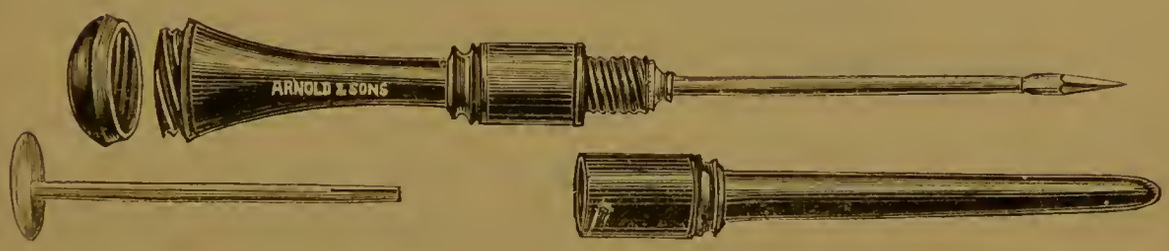


Fig. 740.

Trocar, Hydrothorax, with silver cannula, in ebony case, for the pocket, 3 sizes, Fig. 740 ... ... 7s. 6d., 8s. 6d., and	0	9	6

Fig. 741.

Trocar, with silver cannula (Gunn's), for flatulent colic, in leather case, complete, Fig. 741	0	10	6
Ditto with German silver cannula, without case	0	5	6

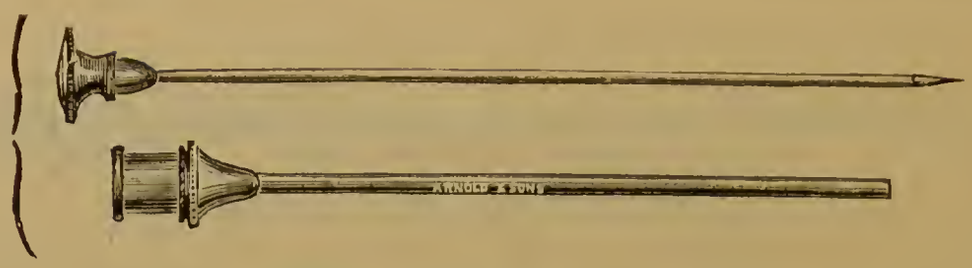


Fig. 742.

	£	s.	d.
Trocar, with gilt cannula (Campbell's), for flatulent colic, gilt, Fig. 742	0	6	0

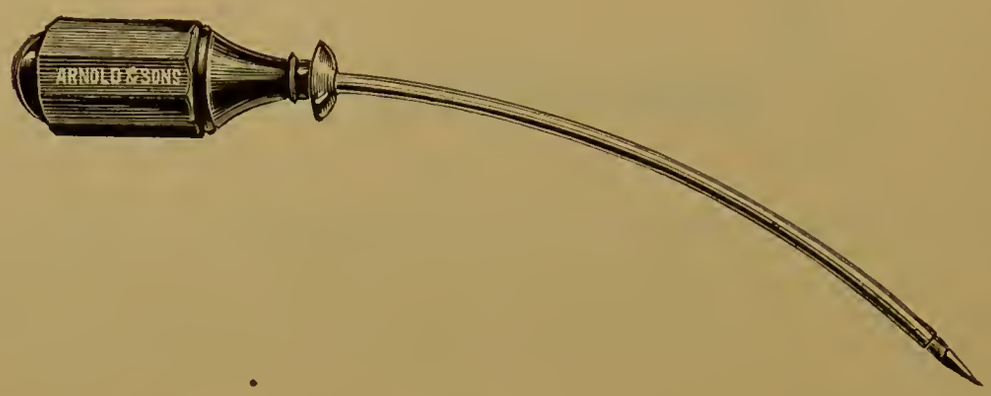


Fig. 743.

Trocar, with silver cannula (Prof. Williams'), for flatulent colic, Fig. 743	0	10	6

Fig. 744.

Trocar, with cannula (Dowell's), for flatulent colic, in gilt metal case, complete, Fig. 744	0	10	6
Ditto ditto (Faulkner's), ditto ... $6\frac{1}{2}$ in., 6s. 6d. ; 8 in.	0	8	6

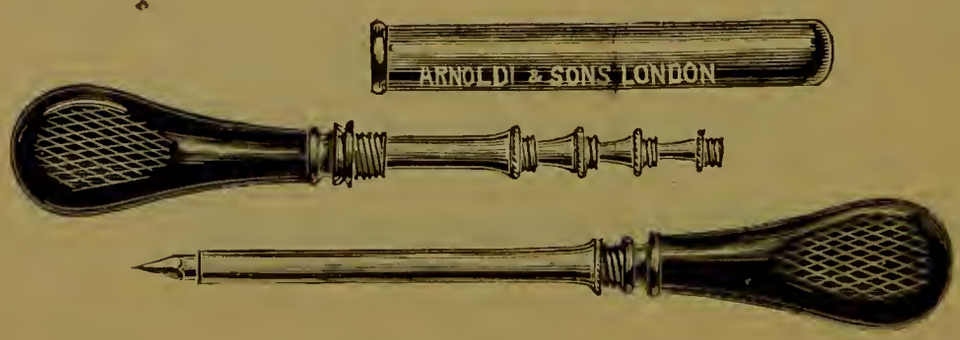


Fig. 745.

Trocars, with cannulæ, set of four nested, in ebony handle, Fig. 745	0	12	6
Ditto ditto ditto in aseptic metal handle ...	0	13	6

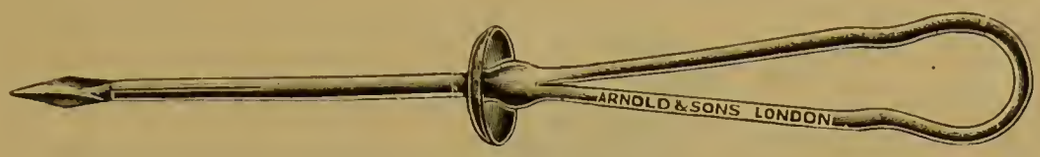


Fig. 746.

	£	s.	d.
Trocar, with silver cannula, in aseptic metal handle, Fig. 746 ...	0	6	6

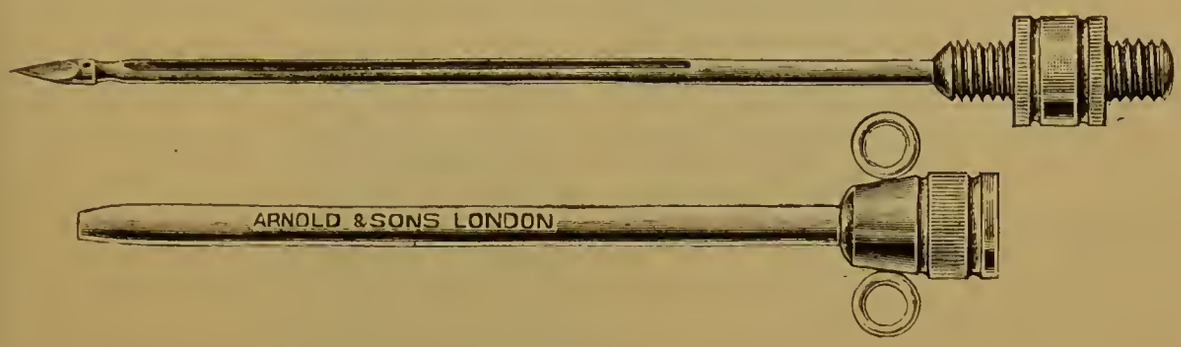


Fig. 747.

Trocar and cannula (Walley's), combined, with exploring needle, director and milking tube, Fig. 747	0	5	6

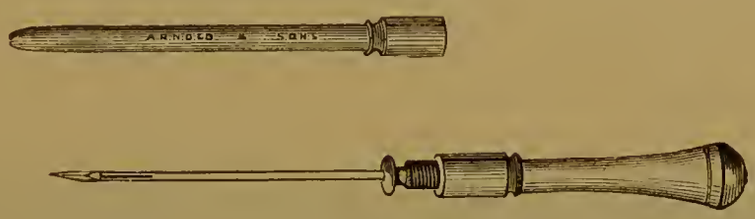


Fig. 748.

Exploring Trocar, with silver cannula, in ebony case, four sizes, Fig. 748 ... ... each	0	5	0
Ditto ditto ditto in ivory case ... ditto	0	5	6
Ditto ditto ditto in aseptic metal case ditto	0	6	0

Fig. 749.

Exploring Needle or pin director, in ivory case, Fig. 749	0	2	6
Ditto ditto ditto in aseptic metal case	0	3	0

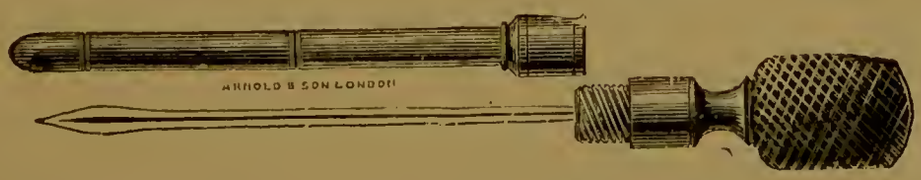


Fig. 750.

Exploring Needle (Sheather's), in ebony case, Fig. 750	0	3	0

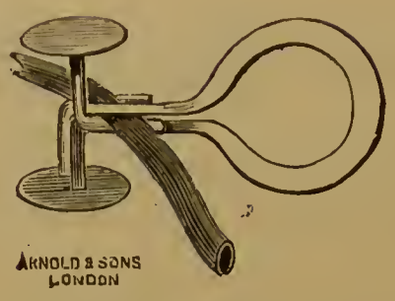


Fig. 751.

	£	s.	d.
Drainage Tube Clip, Fig. 751...	0	0	6

Fig. 752.

	£	s.	d.
Drainage Tubing, India-rubber, 7 sizes, Fig. 752, per yard, No. 1, 6d.; No. 2, 7d.; No. 3, 8d.; No. 4, 9d.; No. 5, 1s.; No. 6, 1s. 6d.; No. 7	0	2	0

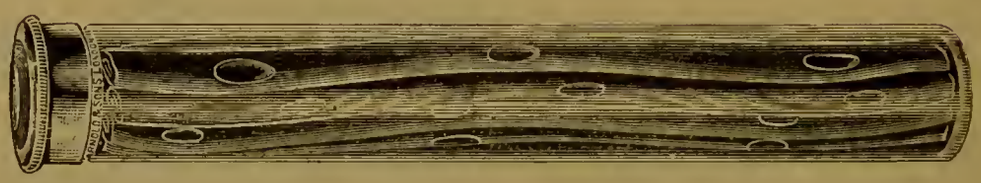


Fig. 753.

	£	s.	d.
Drainage Tubes, india-rubber carbolized, assorted sizes, in screw cap bottle, Fig. 753	0	1	6

Diagnostic Instruments.

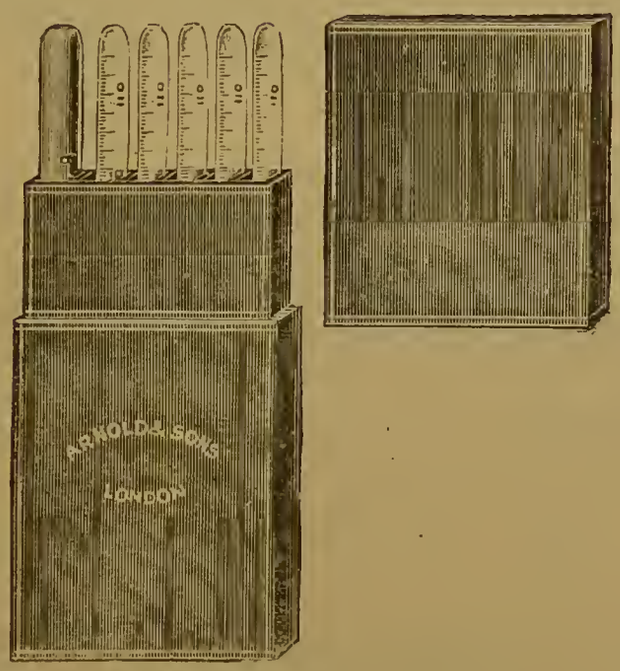


Fig. 754.

	£	s.	d.
"Reliance" Clinical Thermometer, ordinary, set of six, in pull-off case, Fig. 754	0	11	6

ARNOLD & SONS' "Reliance" Clinical Thermometers are of guaranteed accuracy, rendering the expense of Kew Certificates unnecessary.

COPY OF A LETTER RECEIVED BY MESSRS. ARNOLD & SONS FROM THE ADMIRALTY, WHITEHALL, S.W.

GENTLEMEN,—I beg to acquaint you that the new Clinical Thermometer submitted by you for trial to the Royal Naval Hospital, Haslar, is approved, and it will now take the place of pattern 292 in the Schedule. I have to request that you will be good enough to forward to the Department of the Medical Director-General, 21, Northumberland Avenue, one of the instruments for adoption as the Official Standard.—Yours, &c.

NOTICE.—The greatest care is taken in packing these delicate instruments; from their fragile nature they are easily broken; therefore it must be distinctly understood we do not hold ourselves in any way responsible for damage sustained in transit.

Fig. 755.

"Reliance" Clinical Thermometer, with Indestructible index, in metal case, Fig. 755	4 in.	0	2	6
Ditto ditto ditto ditto ditto	6 in.	0	3	0
Ditto ditto ditto ditto (half-minute)	4 in.	0	3	6

Extract from "THE VETERINARIAN."

Messrs. ARNOLD & SONS, always on the alert to improve, have just produced a new thermometer, in which the constriction, formerly the weakest part of the whole thermometer, is made the strongest. So many thermometers break at this point, and the cost of replacing them is so considerable, that practitioners will gladly welcome the new form. Despite the improvement, the price appears not to have been raised.

Fig. 756.

	£	s.	d.
"Reliance" Clinical Thermometer, with Magnifying index, in metal case, Fig. 756 ... ... 4 in.	0	3	6
Ditto ditto ditto ditto ditto 6 in.	0	4	0
Ditto ditto ditto ditto (half-minute) 4 in.	0	4	6

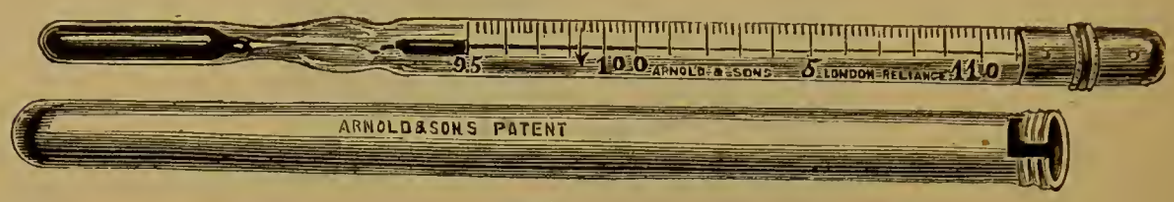


Fig. 757.

"Reliance" Clinical Thermometer (Arnold & Sons' Patent), with Indestructible index, in aluminium bronze case, with bayonet joint	0	3	0
Ditto ditto ditto with Magnifying index, Fig. 757	0	4	0

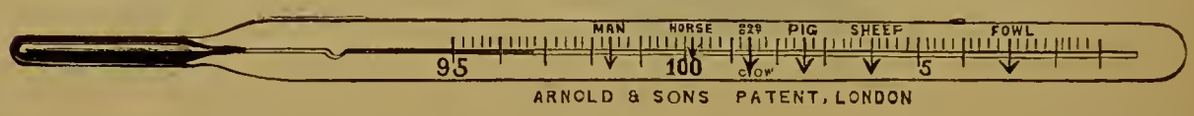


Fig. 758.

Clinical Thermometer (Prof. Hobday's animal), with Indestructible index, in metal case, Fig. 758 ... 4 or 5 in.	0	3	6
Ditto ditto with opaque flat front ... ... 4 or 5 in.	0	5	0
Ditto ditto with Magnifying index ... 4 or 5 in.	0	5	0

Extract from "THE VETERINARY RECORD."

A thermometer, especially designed to indicate a fair average normal temperature for each of the domesticated animals and the fowl, in health, was introduced by Professor Hobday to the notice of the members of the Central Veterinary Medical Association at their meeting in December last. It differs from the thermometer in general use at present, by the fact that arrows are added at intervals on the stem to mark the average normal rectal temperature of each of the domesticated animals and the fowl; in the usual thermometer the only arrow is placed at 98°·4, indicating the normal average of man when taken by the mouth or axilla. The results are based upon about 2,000 observations made with one of ARNOLD & SONS' Kew Tested Thermometers, during a period of twelve months, on a large number of animals and birds in various parts of England under varying conditions. As shown in the sketch the horse is placed at 100°·2, the cow, dog, and cat at 101°·4, the pig at 102°·6, the sheep at 104°·, and the fowl at 107°·. In taking these figures into account, as pointed out at the meeting, one must be aware that confinement, exercise, work, excitement, food, age, external temperature and other things, tend to cause variations to a greater or less extent, according to the temperament and condition of the animal under observation.

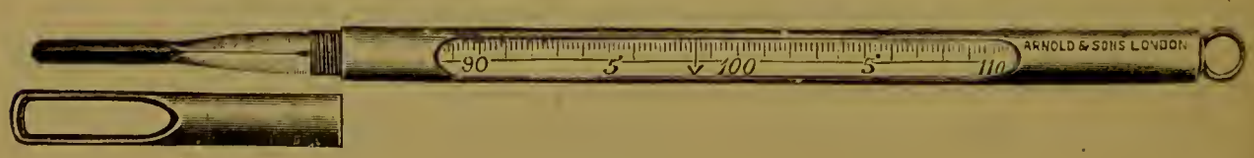


Fig. 759.

Clinical Thermometer, with Indestructible index, in metal case, with open front, Fig. 759 ... ... 6 in.	0	6	0
Ditto ditto ditto with Magnifying index ... 6 in.	0	7	0

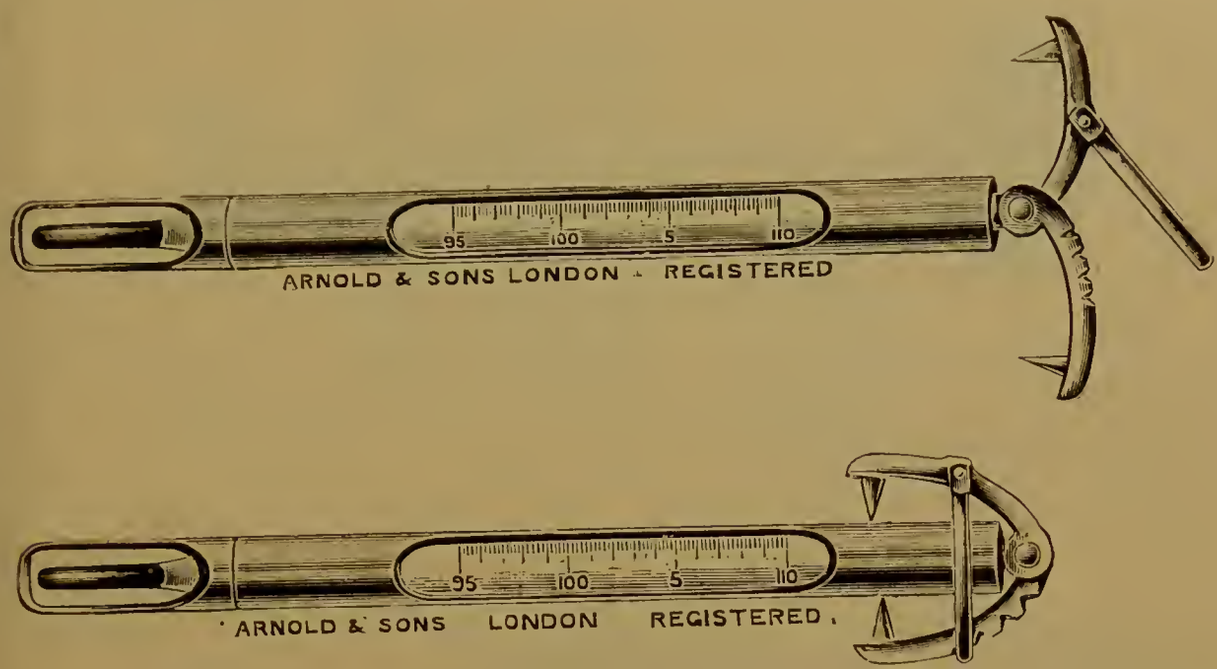


Fig. 760.

	£	s.	d.
Clinical Thermometer (Session's), in nickel-plated case, Fig. 760 ...	0	6	6

Extract from "THE VETERINARY JOURNAL."

The diagram represents a thermometer case which Messrs. ARNOLD & SONS made for me last winter, and which I designed to obtain a register of the maximum temperature in cows testing with tuberculin without having to personally take the temperatures every three hours.

It is an ordinary thermometer case with a special clip attached to one end.

The thermometer and case are inserted into the vagina of a cow and the clips encircle the vulva and fix the case. The case appears to cause little or no inconvenience to the cow either during the time it is fixed or afterwards.

Fig. 761.

Binaural Stethoscope, Fig. 761	0	5	6

Fig. 762.

Binaural Stethoscope, with plated stems, superior, Fig. 762 ...	0	10	6

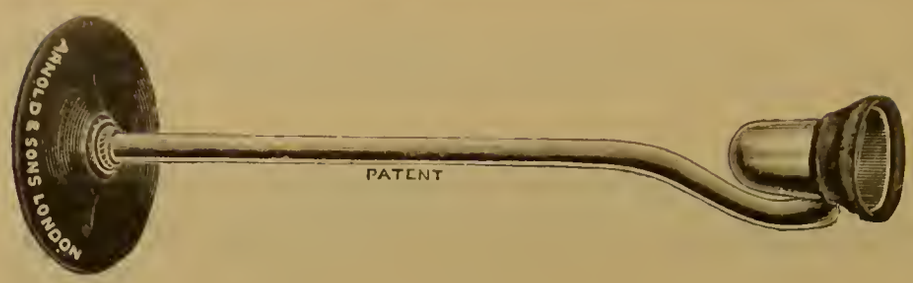


Fig. 763.

£ s. d.

"Phonophore" Stethoscope (Patented), single, with metal stem, nickel plated, vulcanite ear piece, and india-rubber cap fitted to chest piece, complete, Fig. 763 ... ... 0 5 6

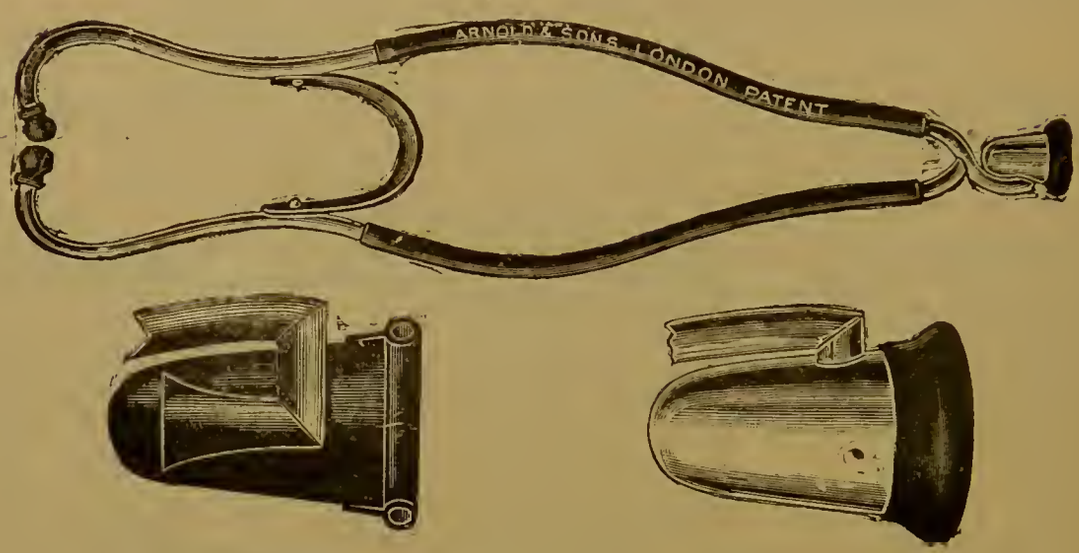


Fig. 764.

"Phonophore" Binaural Stethoscope (Patented), with india-rubber ear pieces and cap fitted to chest piece, complete, Fig. 764 ... 0 12 6

"Phonophore" Chest Piece only, for attaching to binaural stethoscope 0 5 6

By an ingenious adaptation of the "ear trumpet" principle of accumulating sound, to the chest-piece of a stethoscope, they have produced an instrument which increases auditory power to a useful degree, and by avoiding detachable pieces of mechanism they have also consulted the convenience of the physician. The Phonophore, as they purpose naming their modified stethoscope, is made on the flexible binaural and straight forms; for it will not be denied by practical men that there are circumstances, such as the auscultation of the fœtal heart, in which the use of the rigid instrument is to be preferred. The Phonophore has been practically tested by physicians, and found to be the best instrument as yet brought before the notice of the profession.

Extract from "THE BRITISH MEDICAL JOURNAL."

This is the latest, and perhaps the simplest, of the many forms of stethoscope that have recently appeared, designed to augment the intensity of the sounds and to give them additional clearness. By an ingenious adaptation of the "ear trumpet" principle of accumulating sound to the chest-piece, the designers have produced an instrument which increases auditory power to a useful degree. The instrument is compact in itself, there being no loose and detachable pieces. The instrument is made in both the straight and binaural form, and should prove a useful addition to the armamentarium of the physician. It can be obtained from the makers, Messrs. ARNOLD & SONS, of West Smithfield.

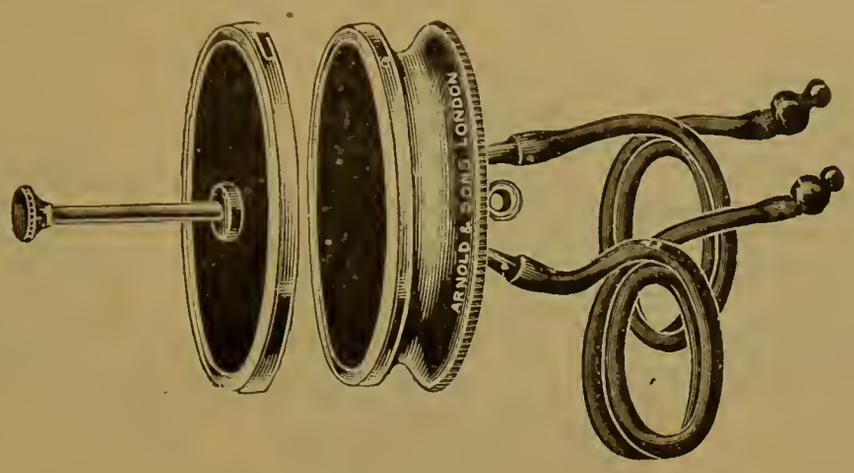


Fig. 765.

	£	s.	d.
Phonendoscope, in leather case, complete, Fig. 765	0	15	0

MAJOR SMITH writes:—

Instruments of precision which will give assistance in clinical work must always be acceptable to us. The more we take advantage of the opportunities afforded by scientific discoveries, the greater will be the accuracy of our diagnosis.

With this apparatus the respiratory and cardiac sounds can readily be heard through the clothing of an ordinary man with the most remarkable distinctness, while for an examination of the chest of the horse it is positively invaluable. I have used the instrument in my possession some hundreds of times, and, with a large and responsible practice, mainly consisting of respiratory diseases, I have come to regard the Phonendoscope, for the sake of its accuracy and the valuable assistance it has given me, as nothing less than a Godsend.

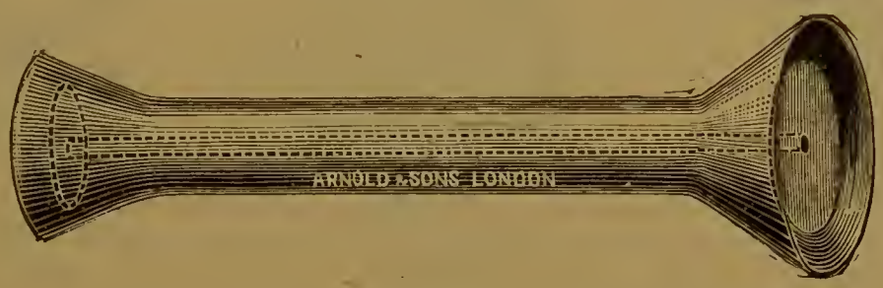


Fig. 766.

Sound Post Stethoscope (Fly Smith's), Patented, Fig. 766	0	4	6

Extract from "THE BRITISH MEDICAL JOURNAL."

Dr. H. Fly Smith has had made for him by Messrs. ARNOLD & SONS a stethoscope, which he thinks is a better conveyor of sounds from the chest than the ordinary stethoscope, which is dependent on the column of air. The stethoscope is made on the principle of the sound-post in a violin which conveys the vibrations between the back and the belly of that instrument. In this stethoscope two discs or drums represent those parts. The sound-post he finds conveys the vibrations of the chest more clearly than the air column. Dr. Smith states that this stethoscope can be made at a price little exceeding that of the ordinary ones.

Fig. 767.

Stethoscope, cedar or walnut, Fig. 767	0	2	6
Ditto ditto with ear plate, to unscrew	0	3	0

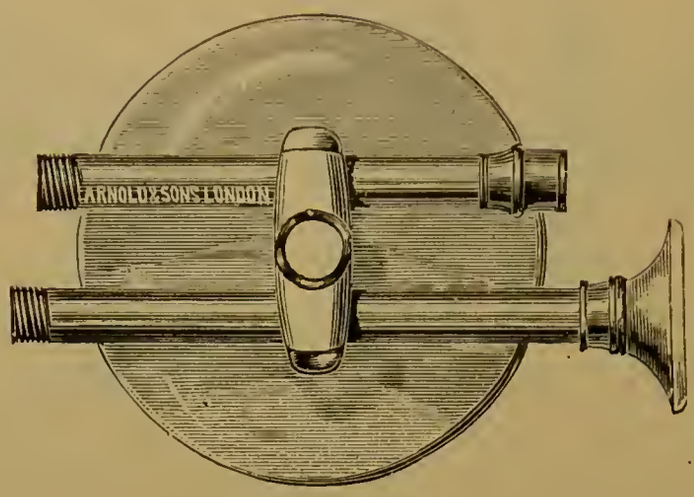


Fig. 768.

	£	s.	d.
Stethoscope (portable), with plated stem, for the pocket, Fig. 768	0	5	0

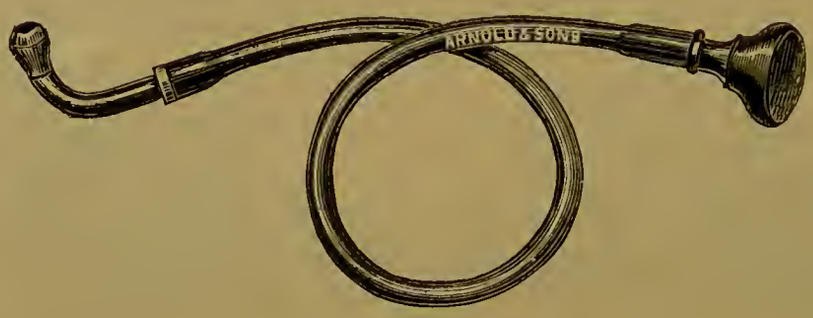


Fig. 769.

Stethoscope (Clarke's), flexible, Fig. 769	0	4	6

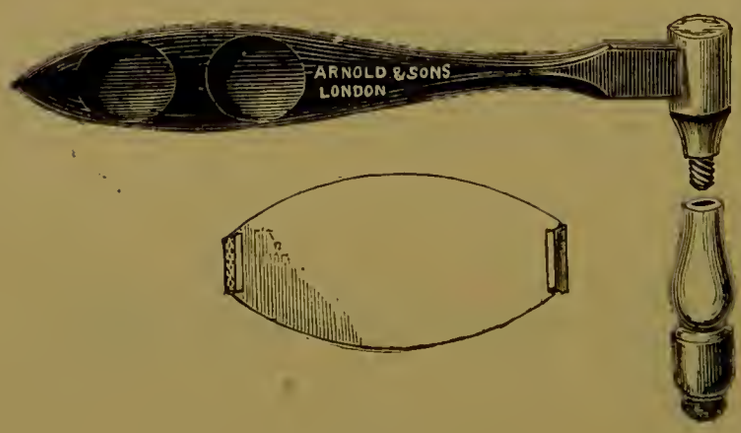


Fig. 770.

Pleximeter and Percussion Hammer (Bennett's), in leather case, Fig. 770	0	12	6

Fig. 771.

Fig. 772.

Fig. 773.

	£	s.	d.
Magnifying Lense, single, in horn. small, Fig. 771	0	1	0
Ditto ditto ditto medium, Fig. 772	0	1	6
Ditto ditto ditto large, Fig. 773	0	2	0
Ditto ditto double ditto ... ...2s. and	0	2	6
Ditto ditto treble ditto	0	4	6

Fig. 774.

Fig. 775.

Fig. 776.

Magnifying Lense, single, in tortoiseshell, Fig. 774	0	3	0
Ditto ditto double ditto Fig. 775	0	4	6
Ditto ditto treble ditto Fig. 776	0	6	0

Fig. 777.

Fig. 778.

Fig. 779.

Magnifying Lense, mounted in German silver, folding, very powerful, small, Fig. 777	0	4	0
Ditto medium, Fig. 778	0	5	0
Ditto large, Fig. 779	0	6	0

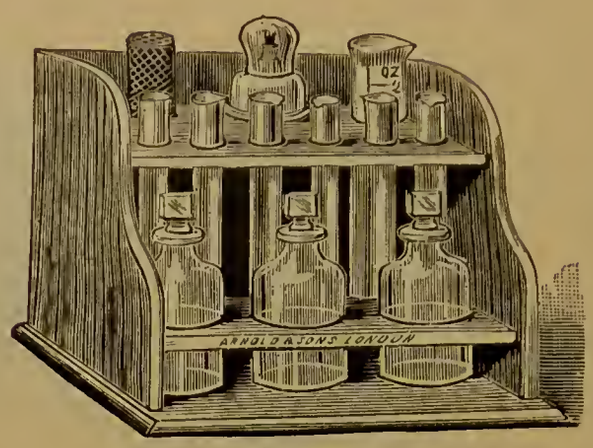


Fig. 780.

	£	s.	d.
Urinary Test Stand, mahogany, containing three stoppered bottles, spirit lamp, urinometer, trial glass, and six test tubes, Fig. 780	0	15	0

Fig. 781.

Urinometer, glass, in leather case, Fig. 781	0	3	0
Ditto opaque ditto	0	5	0

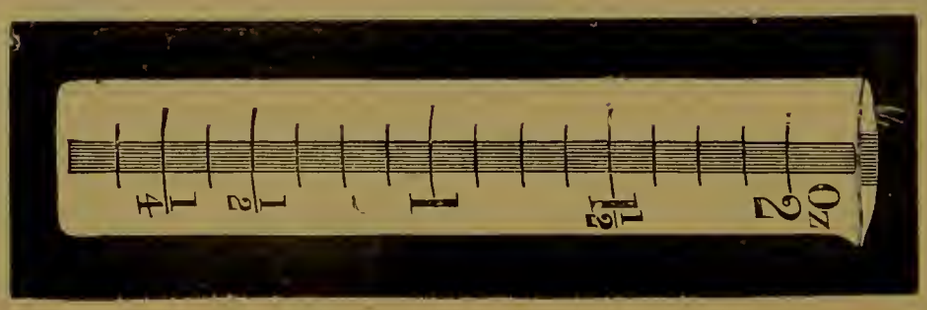


Fig. 782.

Test or Trial Glass, cylindrical, graduated	0	1	6
Ditto ditto ditto ditto opaque, Fig. 782	0	2	0

Anæsthetic Apparatus, Inhalers, &c.

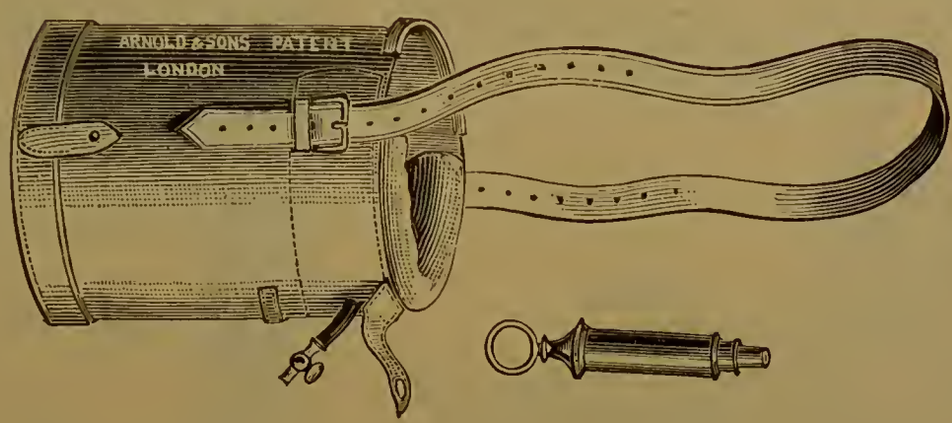


Fig. 783.

	£	s.	d
Chloroform Muzzle (Dowell's), Patented, with brass inflating pump and stopcock, complete, Fig. 783	1	5	6

Extract from "THE VETERINARIAN."

Having cast and secured the horse, remove the cap and put the muzzle over the upper jaw, the edge opposite the rubber tube and stopcock being in the horse's mouth. Fit the head-strap behind the ears, and then proceed to blow up the pneumatic pad with the brass pump until the upper edge of the muzzle fits the horse's face, being careful not to make it fit so close as to compress and occlude the nasal chambers. Now attach the cap to the lower button on the muzzle, place the chloroformed sponge on the wire grating, and close the cap, leaving the sliding ventilator open. Should the horse struggle a great deal, undo the top button and let air in under the cap. After the horse is once under the influence of the chloroform the cap and ventilator should be closed, as he will get plenty of air through the mouth, the soft palate having become paralysed. The tongue should always be held by the assistant, as it is apt to become lacerated by the teeth when the horse is coming round, and it always acts as a good index of the stage of anæsthesia that the animal is in. The patentees and manufacturers are Messrs. ARNOLD & SONS, of West Smithfield, London.

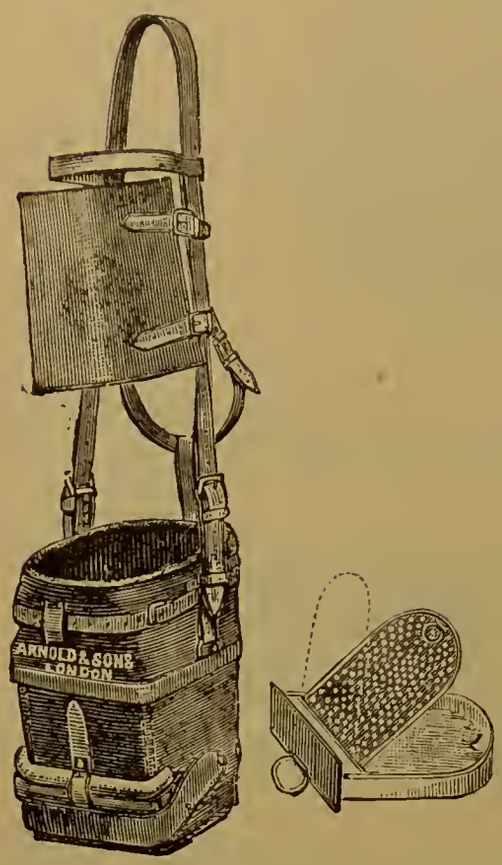


Fig. 784.

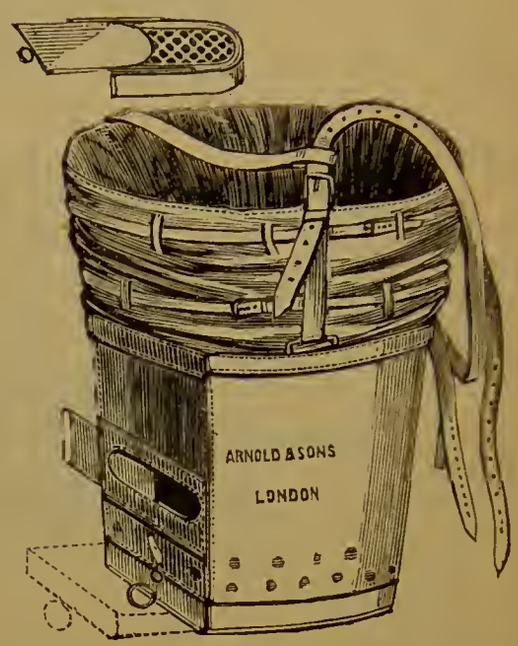


Fig. 785.

	£	s.	d.
Chloroform Muzzle (Arnold & Sons' modified Carlisle's), Fig. 784	1	15	0
Ditto ditto (Raymond's Improved), Fig. 785	1	15	0

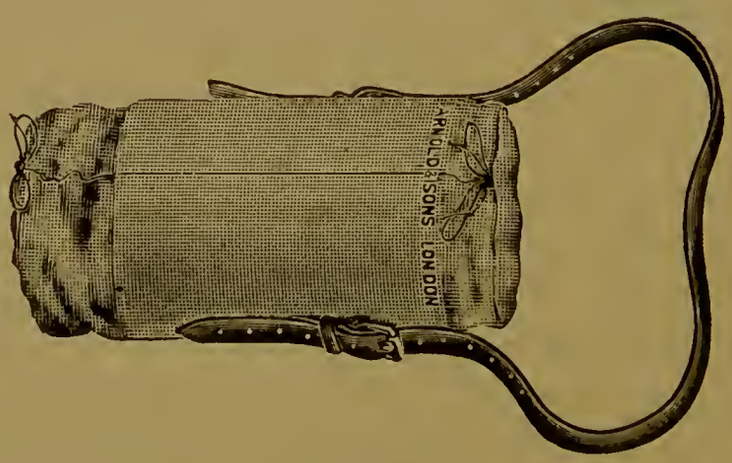


Fig. 786.

Chloroform Muzzle (Cox's), as used at the Royal Veterinary College, Fig. 786	0	15	0

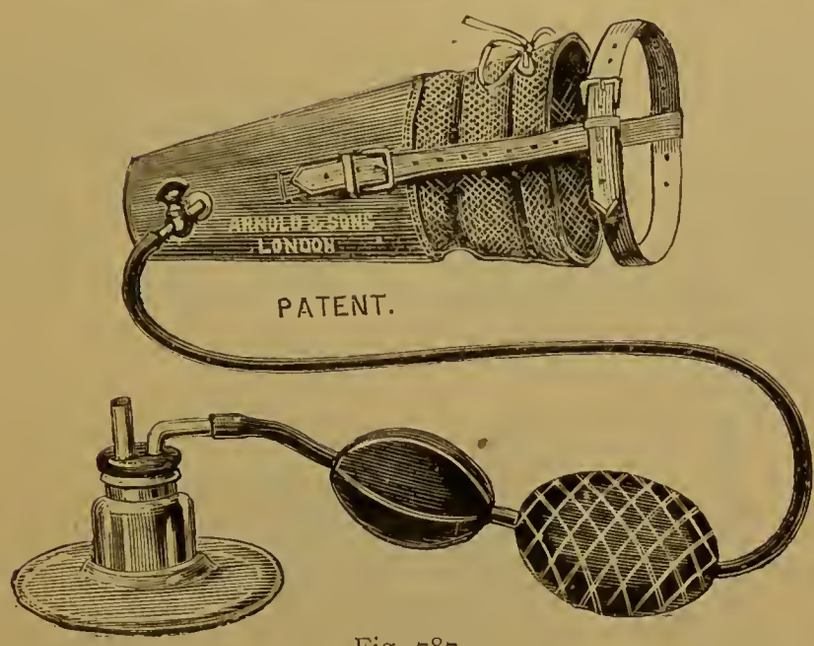


Fig. 787.

Fig. 787.—Showing the arrangement of the bellows whereby air is sucked over the surface of the anæsthetic and the mixed vapour steadily forced into the mask on the patient's face.

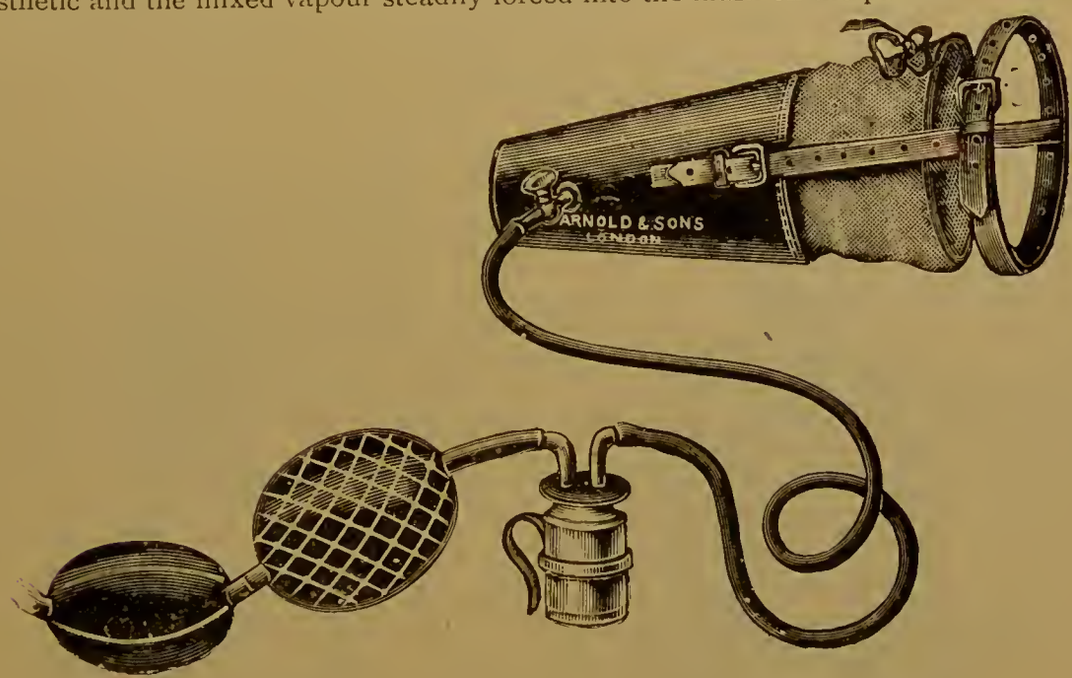


Fig. 788.

Fig. 788.—Showing the arrangement of the bellows whereby air is forced over the surface of the anæsthetic and the mixed vapour thus steadily forced into the mask on the patient's face.

	£	s.	d.
Chloroform Inhaler (Prof. Hobday's), Patented, for small animals, Figs. 787 and 788	1	5	6

Extract from "THE VETERINARY RECORD."

Above is a sketch of an apparatus for the administration of anæsthetic and other volatile vapours to small animals, which was introduced by Professor Hobday to the members of the Central Veterinary Medical Association at their meeting in February last.

The method of application is to secure the animal firmly in such a way that respiration is not in any way interfered with, apply the mask to the face, and let an assistant work the bellows. The supply of air admitted at the open end of the mask must be regulated by the hand at the discretion of the anæsthetist.

The apparatus has had thorough trial in the Free Clinique of the Royal Veterinary College, anæsthesia having been produced in 400 dogs for times varying from a few minutes to over four hours. These animals were not, except in three cases, in any way prepared, and were in all kinds of condition, the operations including such severe tests as amputation of limbs, ovariotomy, reduction of hernia, &c.

The chief advantages claimed for the apparatus are, first, its safety from the chance of administering an overdose, as with four drachms in the bottle only about one-fifth of a minim of

chloroform vapour well mixed with air can be forced into the mask at each pressure of the bellows, whilst with one drachm in the bottle this becomes reduced to one-twelfth of a minim; this can be still further reduced by means of the tap, and by pressing the bellows slowly; secondly, that by only allowing the vapour to come in contact with the animal's nose there is no rubefacient or irritant effect produced; and thirdly, recovery afterwards is rapid, and not attended with any great amount of nausea or depression. The saving of chloroform is too obvious to need comment. For a small dog it takes from three to six minutes to produce complete anæsthesia, and in a large one from five to ten minutes. It has also been tried on the pig, sheep, and calf, but for the last two animals the mask requires modification in shape, so as not to press on the wings of the nostrils.

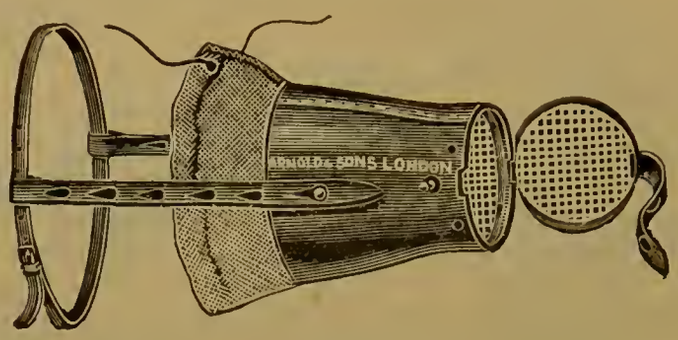


Fig. 789.

	£	s.	d.
Vapour Inhaler (Prof. Hobday's), Fig. 789	0	18	6

Extract from "THE VETERINARY RECORD."

The illustration represents an inhaler, devised by Professor Hobday, for use in patients suffering from catarrhal discharge of the nostrils such as is present in some forms of distemper, influenza and other diseases.

It consists of a cylinder of leather having a canvas top which expands and so fits any size of horse or dog, and a wire gauze bottom, on the lower end of which is fitted a second gauze cap for the purpose of containing a hot sponge medicated with some drug such as creosote, eucalyptus, &c.

The whole thing is fitted to the nostrils by straps, and enables the steam to be thoroughly inhaled without fear of scalding. Being made of material which is able to be disinfected, it can be readily cleansed each time after use.

The inhaler is made by Messrs. ARNOLD & SONS, West Smithfield, in sizes suitable for the horse and dog.

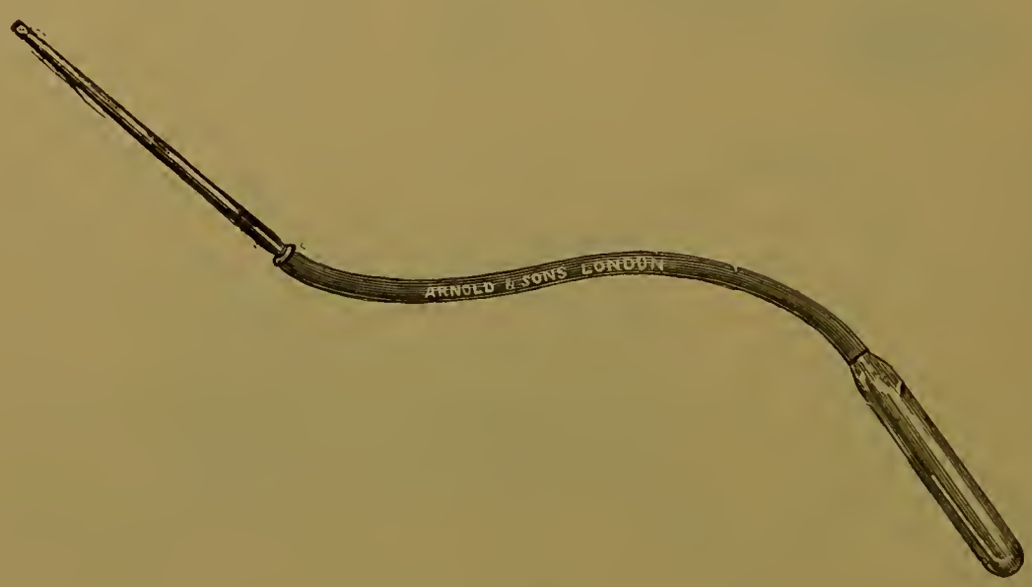


Fig. 790.

Apparatus for producing Anæsthesia per Rectum, with ivory pipe, Fig. 790	0	5	0

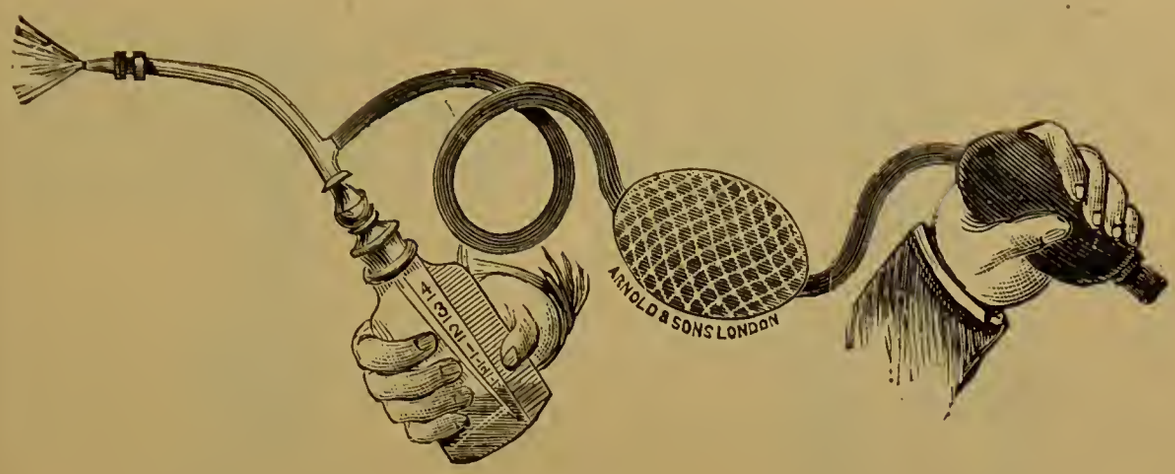


Fig. 791.

	£	s.	d.
Ether Spray (Richardson's), with hand-bellows, and graduated stoppered bottle, in case complete, with one jet, Fig. 791 ...	0	13	0
Ditto ditto ditto with two jets	0	15	0

Fig. 792.

Fig. 793.

Chloroform Drop Bottle (Mill's), with screw metal cap, Fig. 792, 1 oz., 2s. 6d., 2 oz.,	0	3	6
Ditto ditto (Skinner's), with screw metal cap, leather covered, Fig. 793	0	4	6

Fig. 794.

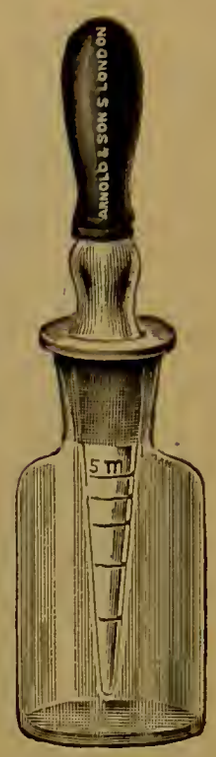


Fig. 795.

	£	s.	d.
Chloroform Drop Bottle, Arnold & Son's (Registered), Fig. 794 ...	0	5	6
Antidote Bottle (Prof. Hobday's), for the antidotal use of Hydrocyanic acid, Fig. 795	0	2	6

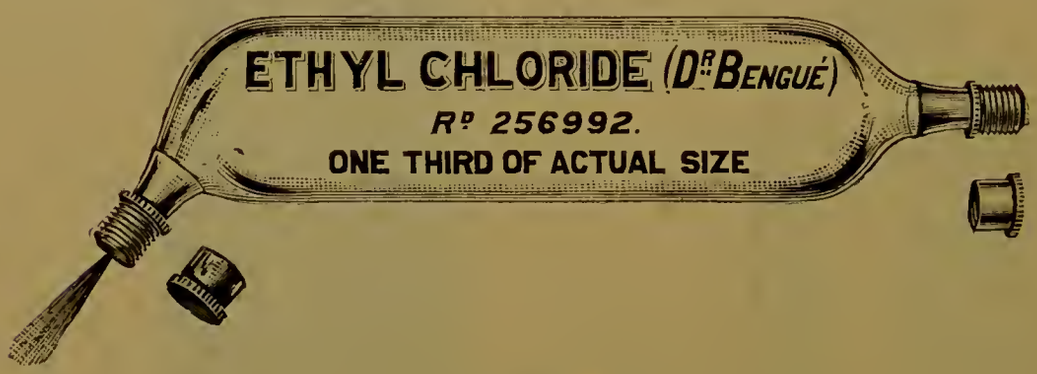


Fig. 796.

Ethyl Chloride, in glass bulbs containing 40 grammes, Fig. 796 per bulb	0	3	0
Ditto ditto ditto ... ... 3 bulbs	0	8	0
Ditto ditto in nickel-plated copper cylinder containing 50 grammes	0	4	0
Refilling	0	3	6
Ditto ditto ditto containing 100 grammes	0	7	6
Refilling	0	5	6

Fig. 797.

	£	s.	d.
Anestile, in nickel-plated copper cylinder, fitted with stopcock, two interchangeable jets, and one coarse spray, containing 120 fluid grammes, Fig. 797	0	13	6
Refilling	0	7	0

The above with the coarse spray is most useful when thick skin covered with hair has to be dealt with. This is of great importance, as the ordinary jets have in some cases not been found sufficiently powerful to produce the desired effect. For the immediate relief of sciatica, neuralgia and rheumatic pains generally the coarse spray will also be found more effective, as the production of cold is more sudden and covers a larger surface.

Bull and Pig Rings, Bull Holders, Leaders, Punches, &c.

Fig. 798.

Fig. 799.

Bull Rings, copper	each	0	1	6
Ditto ditto	per doz.	0	15	0
Ditto iron	each	0	1	6
Ditto solid copper, very superior, Fig. 798	ditto	0	2	0
Ditto ditto ditto	per doz.	1	1	0
Ditto ditto ditto with pointed end, self introducing, Fig. 799	each	0	2	6

Fig. 800.

	£	s.	d.
Bull Ring Trocar and Cannula, for piercing and introducing, Fig. 800	0	5	6

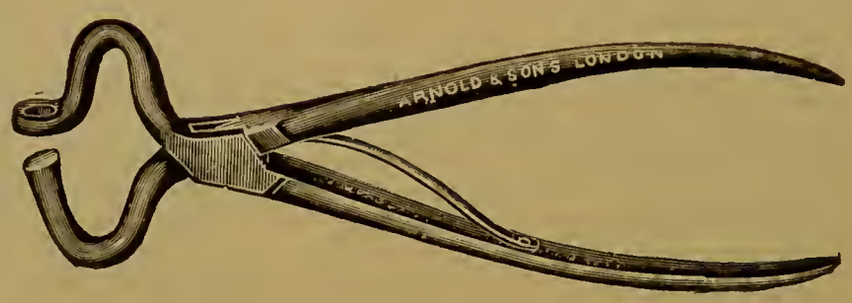


Fig. 801.

Bull Nose Punch, for cutting out the piece of cartilage prior to placing in the ring, Fig. 801	0	6	6

Fig. 802.

Bull Nose Punch, superior, Fig. 802	0	12	6

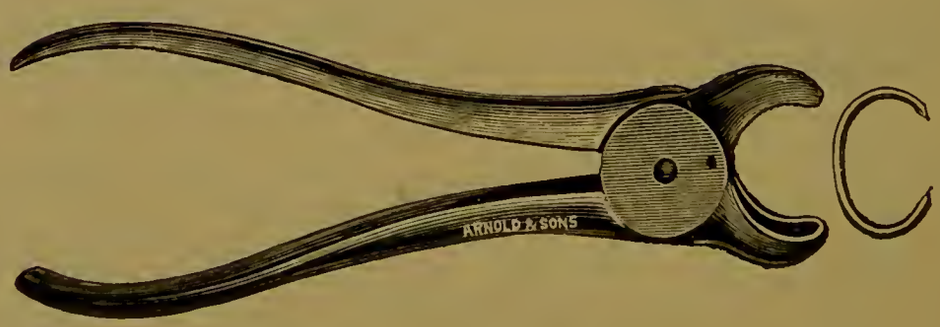


Fig. 803.

Pig Ringer, with 1 gross rings	0	1	6
Ditto dito ditto very superior, Fig. 803	0	2	6

Fig. 804.

	£	s.	d.
Pig Ringer, with 1 gross rings, Fig. 804	0	2	0

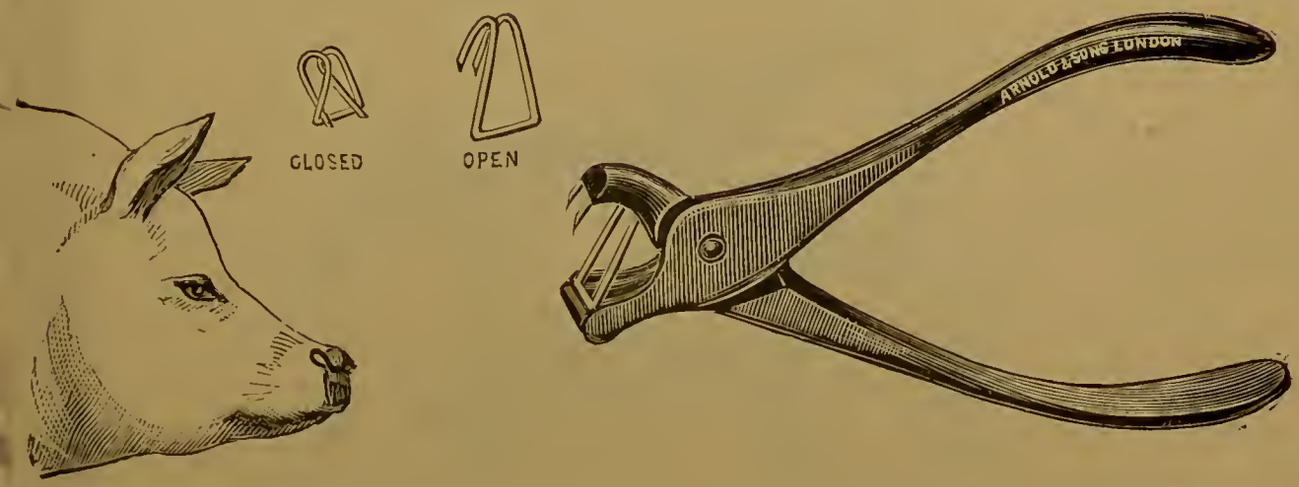


Fig. 805.

Pig Ringer, with 1 gross double rings, Fig. 805	0	3	0

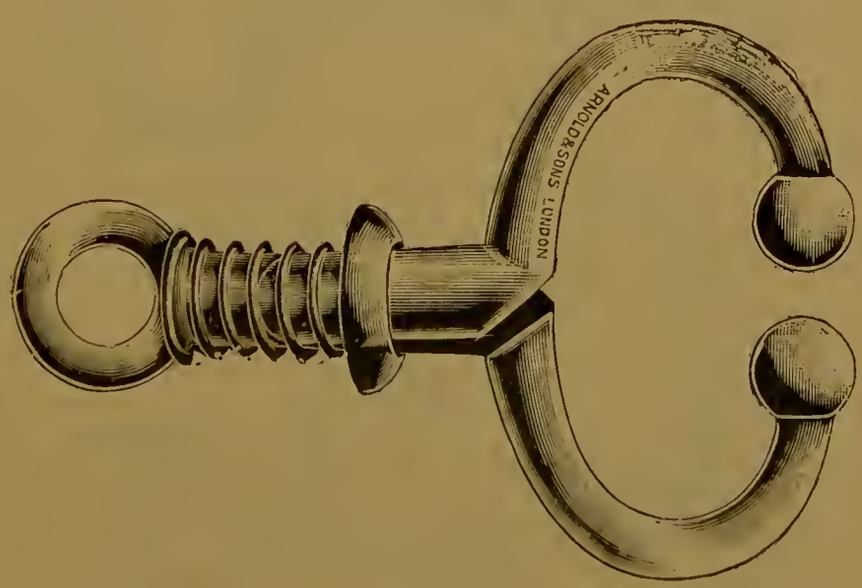


Fig. 806.

Bull Holder, with spring, Fig. 806	0	1	3

Fig. 807.

Fig. 808.

	£	s.	d.
Bull Holder, with thumb screw, Fig. 807 ... small 1s. 6d., large	0	2	0
Ditto oval, with hinge and spring slide, polished, Fig. 808...	0	4	6

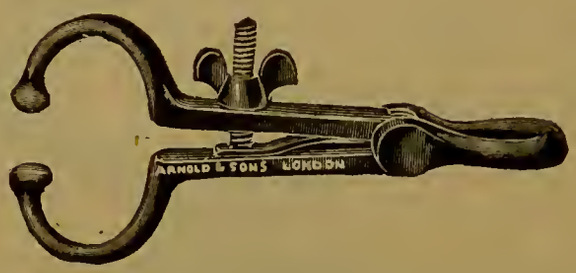


Fig. 809.

Bull Holder, with spring and regulating screw, Fig. 809	0	3	6

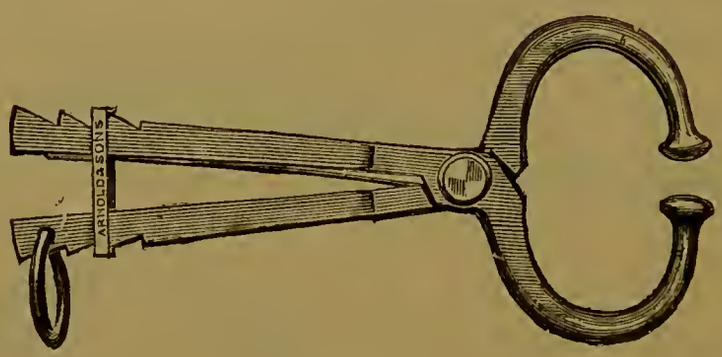


Fig. 810.

Bull Holder, with slide rack and spring, polished, Fig. 810... ...	0	4	6

Fig. 811.

Bull Holder, with slide on handles, Fig. 811	0	6	6

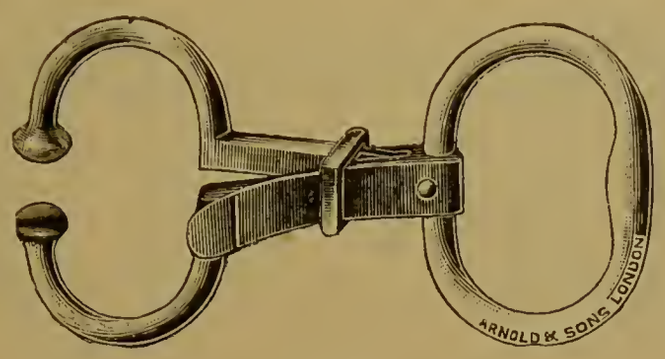


Fig. 812.

	£	s.	d.
Bull Holder, with slide and spring, folding handle (cast)	0	3	0
Ditto ditto ditto superior, Fig. 812	0	5	0
Ditto ditto ditto polished	0	6	0

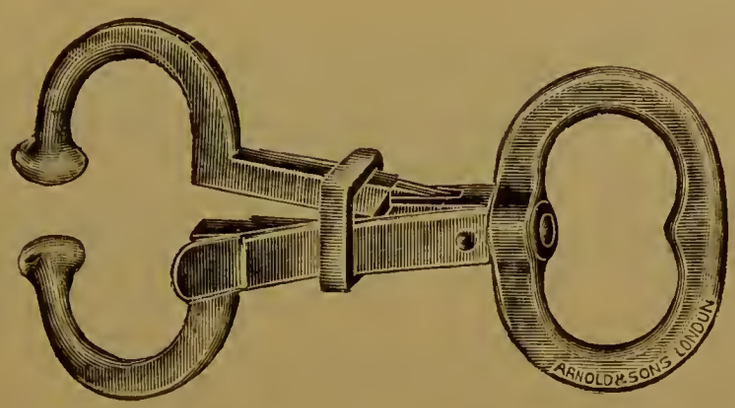


Fig. 813.

Bull Holder, with slide and spring, and swivel handle, extra strong, Fig. 813	0	7	6
Ditto ditto ditto polished	0	8	6

Fig. 814.

Bull holder, with slide and spring, swivel handle, folding, polished, very superior, Fig. 814	0	10	6

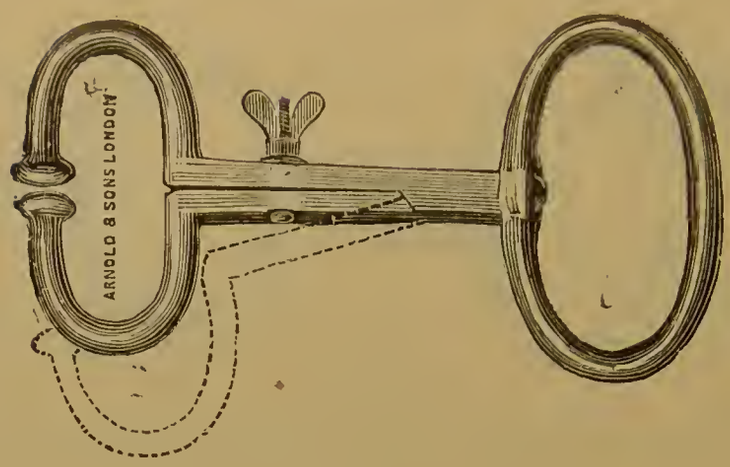


Fig. 815.

	£	s.	d.
Bull Holder (Arnold & Sons' improved), with regulating screw, polished, extra superior, Fig. 815	1	1	0

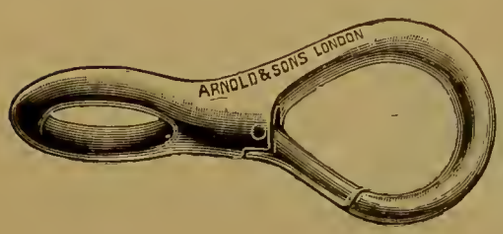


Fig. 816.

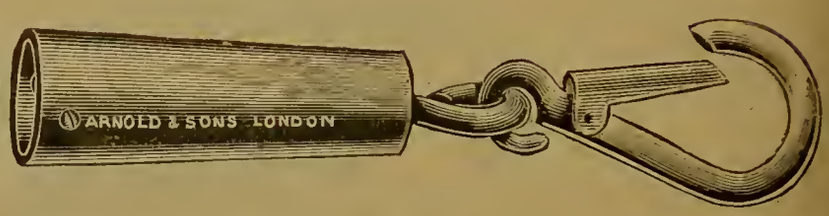


Fig. 817.

Bull Leader, Fig. 816 ... ... 1s. and	0	1	9
Ditto galvanized, plain pattern, Fig. 817	0	2	6

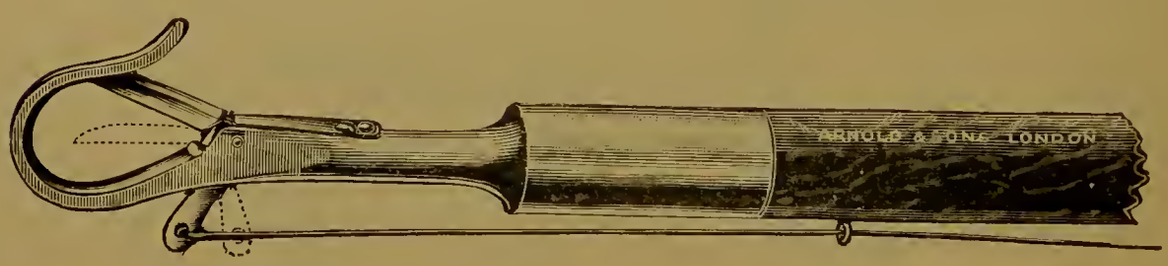


Fig. 818.

Bull Leader, improved, with spring	0	4	0
Ditto ditto ditto mounted on long pole, Fig. 818	0	6	6

Fig. 819.

Bull Leader, with swivel, polished, Fig. 819	0	5	0
Ditto ditto ditto mounted on long pole	0	7	6

Fig. 820.

	£	s.	d.
Bull Leader (Arnold & Sons'), with outside spring, Fig. 820 ...	0	7	0
Ditto ditto ditto ditto mounted on long pole ...	0	9	6

Fig. 821.

Bull Leader, with swivel and screw, Fig. 821	0	12	6
Ditto ditto ditto mounted on long pole... ...	0	15	0

Fig. 822.

Bull Leader (Arnold & Sons' improved), very superior, mounted on long pole, Fig. 822	1	2	6

Fig. 823.

Cow Horn Knobs, brass, Fig. 823	0	0	9
Wrench, in wooden handle, for use with above	0	2	0

Ear Marking, Tattooing Instruments, &c.

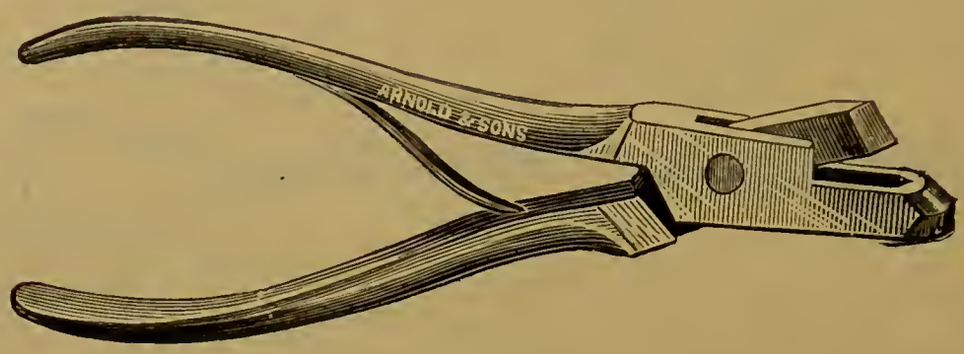
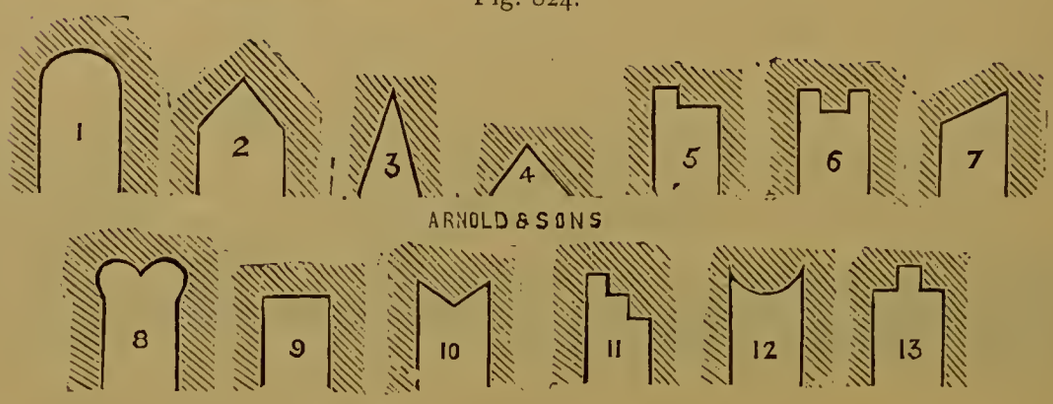


Fig. 824.



	£	s.	d.
Ear Markers, for sheep, pigs, &c., improved, various patterns, small size ... ... each	0	2	6
Ditto ditto large size, Nos. 1 to 13, Fig. 824 ... ditto	0	4	0

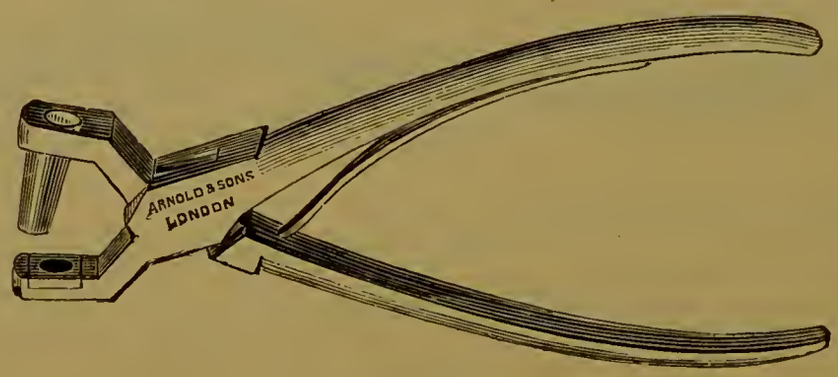
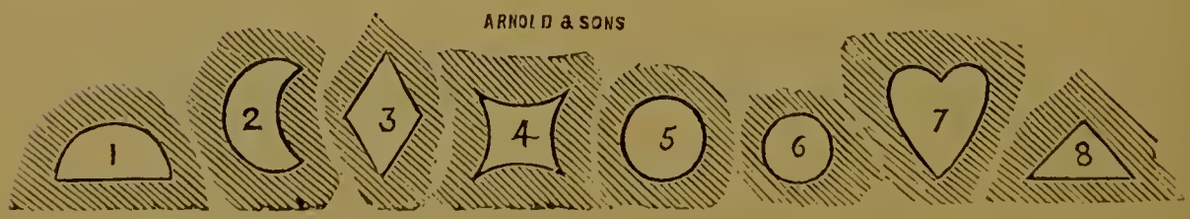


Fig. 825.



	£	s.	d.
Ear Markers, for sheep, pigs, &c., various patterns, Nos. 1 to 8, Fig. 825 ... ... each	0	4	6

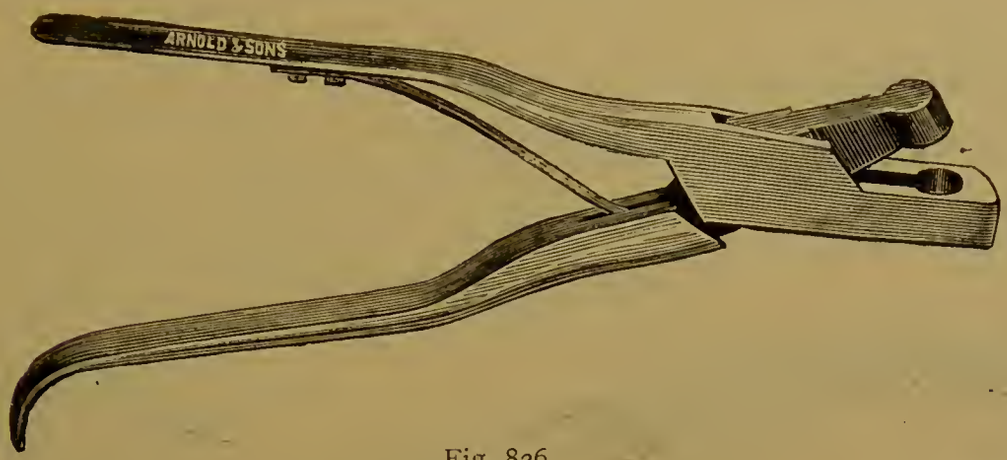
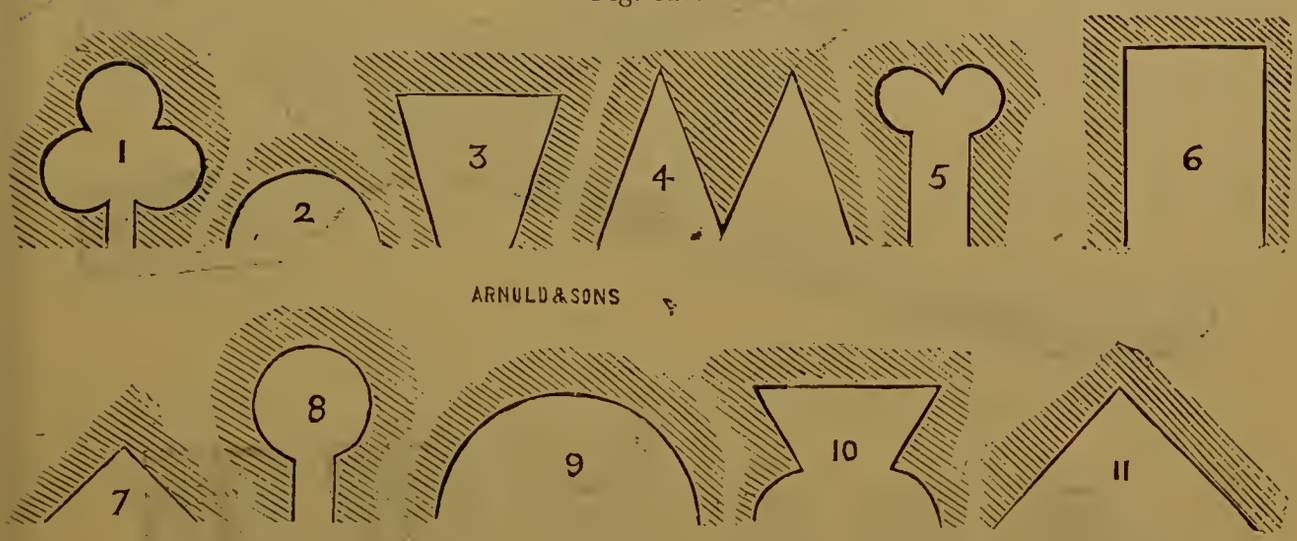


Fig. 826.



		£	s.	d.
Ear Markers, for cattle, various patterns, Fig. 826, Nos. 2 and 7	each	0	6	0
Ditto ditto ditto Nos. 3, 6, 9 and 11 ...	ditto	0	7	6
Ditto ditto ditto Nos. 1, 4, 5, 8 and 10 ...	ditto	0	8	6

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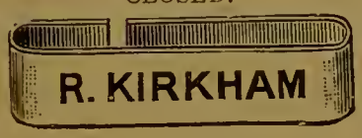

Fig. 827.

OPEN.

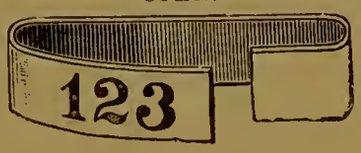

Fig. 828.

OPEN.

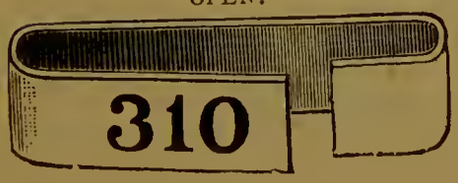

Fig. 829.

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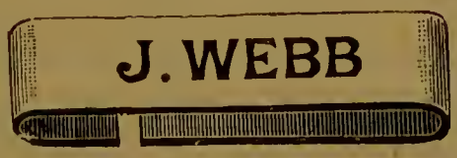


Fig. 830.

Ribbon Ear Markers, for sheep, pigs, &c., as supplied to the Royal Agricultural Society of England, &c., actual size, Figs. 827 and 828	per hundred	0	12	0
Ditto ditto for cattle, horses, &c., actual size, Figs. 829 and 830	per hundred	0	15	0

The above prices include initials and numbering.

The above marker is thoroughly effective; it is a thin strip of plated metal, marked with initial or name of owner as required and numbered. The ear is punched the length of the ribbon from the edge, in the lower corner near the head, the marker inserted, and then pressed together with a pair of ordinary pliers. They do not make the ear fester, and do not tear or fall out if carefully inserted.

If full name is required, cost of die is charged, viz., 2s. 6d.

	£	s.	d.
Punch for piercing the ear, for sheep, &c.	0	3	6
Ditto and Closer combined, for ditto	0	5	0
Ditto for piercing the ear, for cattle, &c.	0	4	0
Ditto and Closer combined, for ditto	0	5	6
Closing Pliers only	0	2	0

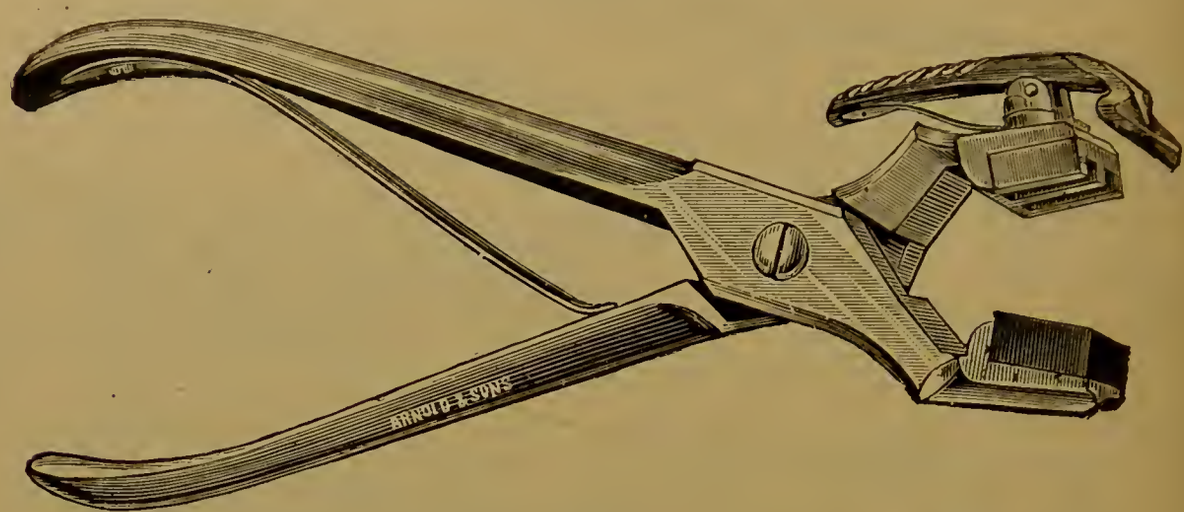


Fig. 831.

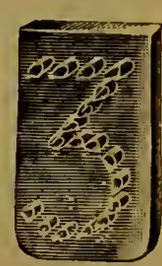


Fig. 832.

Tattooing Forceps, for sheep, pigs, &c., with one set of numbers, in case complete, Fig. 831					1	10	0
Ditto	ditto	ditto	with two sets of numbers ...		2	0	0
Ditto	ditto	ditto	with three ditto		2	10	0
Ditto	ditto	ditto	with alphabet only		2	10	0
Ditto	ditto	ditto	ditto	and one set of numbers	3	3	0
Ditto	ditto	ditto	ditto	and two ditto	3	15	0
Ditto	ditto	ditto	ditto	and three ditto ...	4	4	0
Tattooing Forceps, for cattle, calves, &c., with one set of numbers, in case, complete, Fig. 832					1	12	0
Ditto	ditto	ditto	with two sets of numbers ...		2	2	0
Ditto	ditto	ditto	with three ditto		2	12	6
Ditto	ditto	ditto	with alphabet only		2	12	6
Ditto	ditto	ditto	ditto	and one set of numbers	3	10	0
Dttto	ditto	ditto	ditto	and two ditto	4	2	6
Ditto	ditto	ditto	ditto	and three ditto ...	4	17	6
Numbers for fitting in above forceps ... ... each					0	1	3
Letters ditto ditto ... ... ditto					0	2	0
Marking Ink for use with above ... per bottle 1s., 2s. 6d., and					0	5	0

Tattooing Forceps, with marks of any design, made to order.

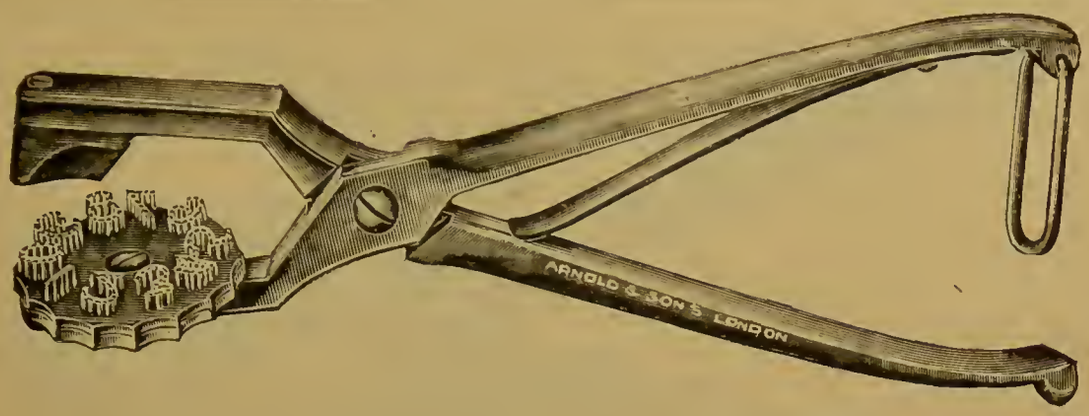


Fig. 833.

	£	s.	d.
Tattooing Forceps, with set of numbers on revolving plate, Fig. 833	1	15	0
Ditto ditto with one letter fixed to plate	0	13	6
Ditto ditto with two ditto ditto	0	16	6
Ditto ditto with three ditto ditto	1	0	0
Branding Irons, figures $\frac{3}{8}$ in. ... ... per set of 9	0	11	0
Ditto ditto $\frac{1}{2}$ in. ... ... ditto	0	12	6
Ditto ditto $\frac{3}{4}$ in. ... ... ditto	0	15	0
Ditto ditto 1 in. ... ... ditto	1	1	0

Dishorning Shears, Horn Trainers, &c.

Fig. 834.

Dishorner, for calves, Fig. 834	0	17	6

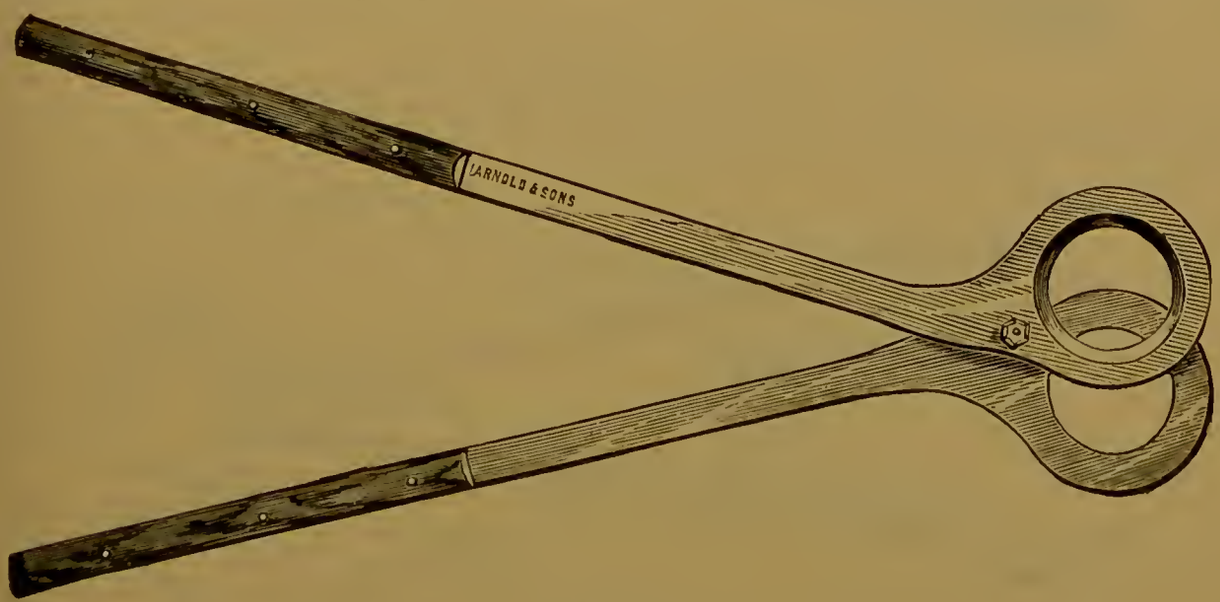


Fig. 835.

Dishorning Shears, steel, very strong and powerful, with scaletang rosewood handles, Fig. 835	2	10	0

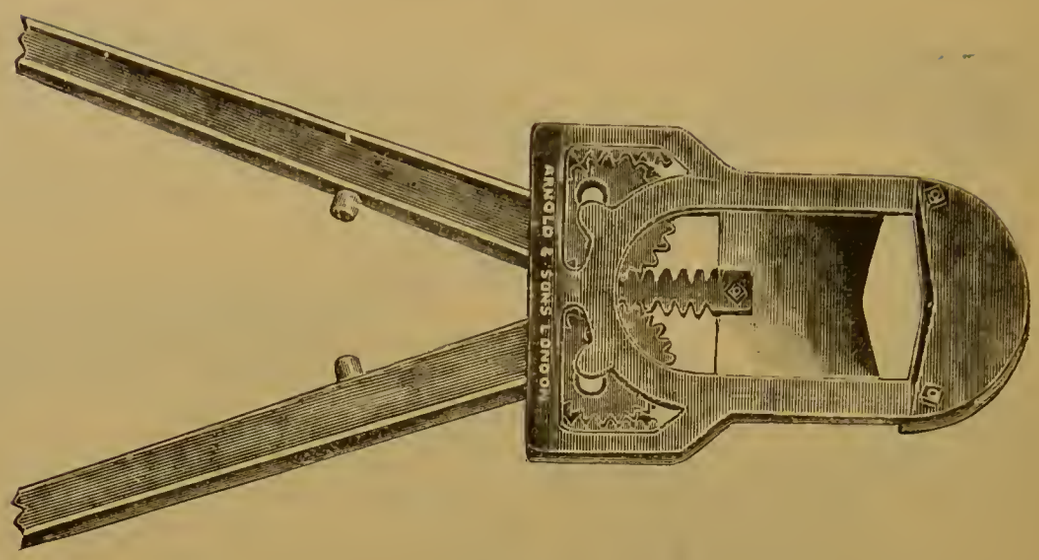


Fig. 836.

	£	s.	d.
Dishorning Shears, Fig. 836	3	3	0

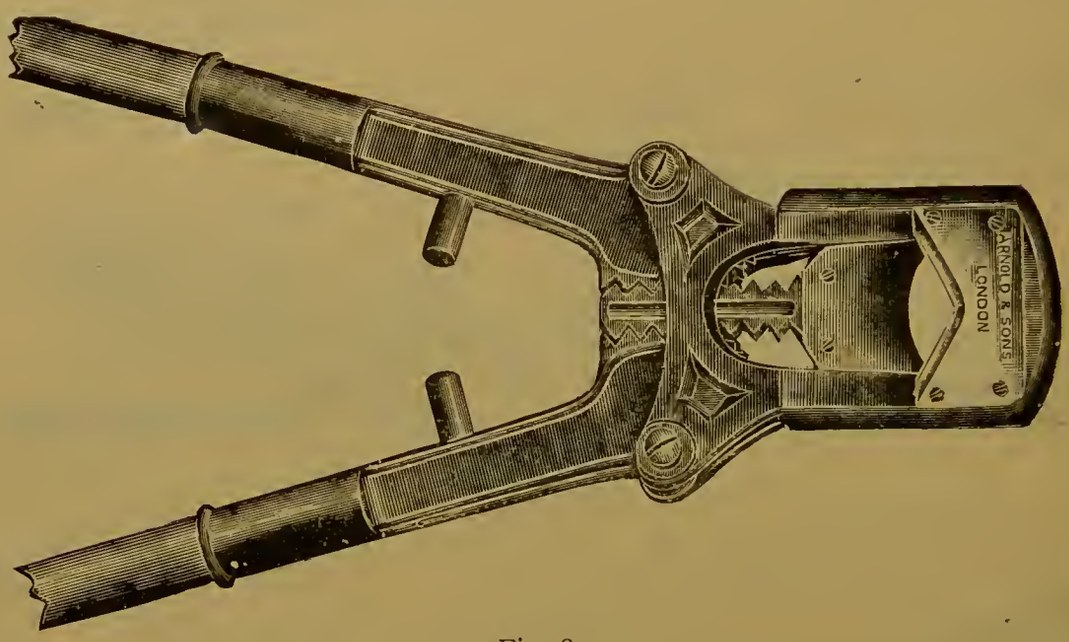


Fig. 837.

Dishorning Shears, improved, Fig. 837	3	5	0

Fig. 838.

Bull Holder, with extra long handles, for using with Dishorning Shears, Fig. 838	1	1	0

Fig. 839.

	£	s.	d.
Horn Trainer, wood, with strap, complete, Fig. 839	0	5	0

Fig. 840.

Horn Trainer, improved, with screw adjustment, Fig. 840	1	1	0

Hoof Instruments, &c.

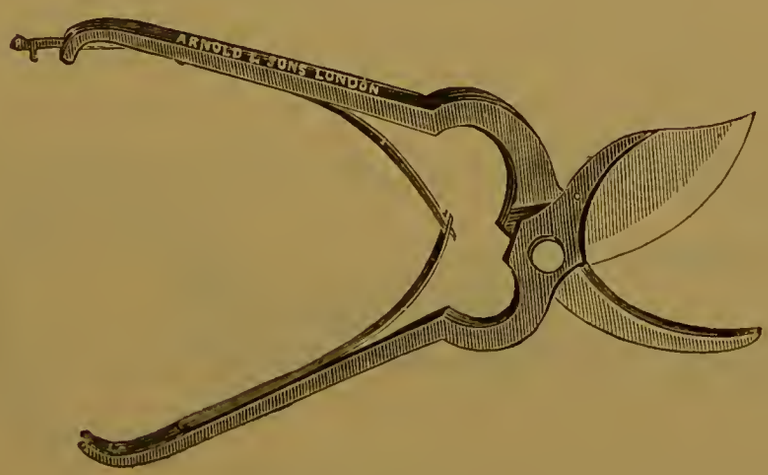


Fig. 841.

Hoof Cutters, with spring, Fig. 841	0	7	6

Fig. 842.

	£	s.	d.
Hoof Cutters, with spring, Fig. 842	0	8	0

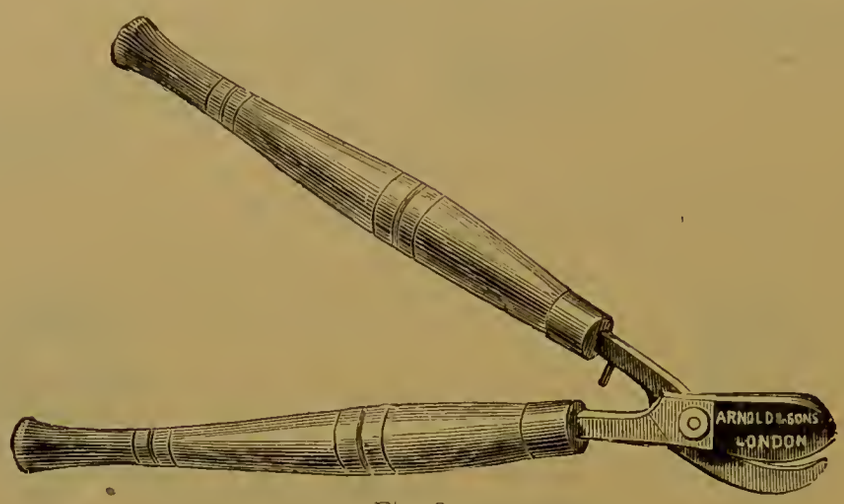


Fig. 843.

Hoof Cutters (Arnold & Sons' improved), very powerful, with wooden handles, Fig. 843	0	12	6

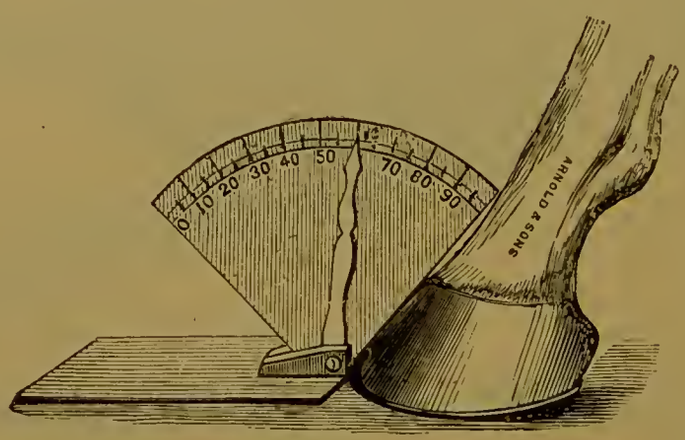


Fig. 844.

Hoof Instrument (Fleming's), with graduated scale, for measuring the angle of the foot, Fig. 844	1	1	0

Fig. 845.

Forceps, for testing foot lameness, Fig. 845	0	8	6

Fig. 846.

	£	s.	d.
Forceps (Varnell's), for testing foot lameness, Fig. 846	0	15	0

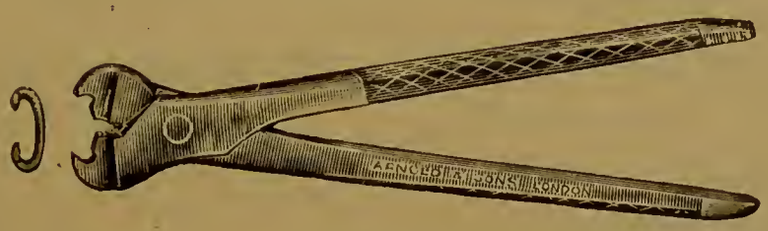


Fig. 847.

Sandcrack Forceps, plain pattern, with single joint, Fig. 847 ...	0	12	6

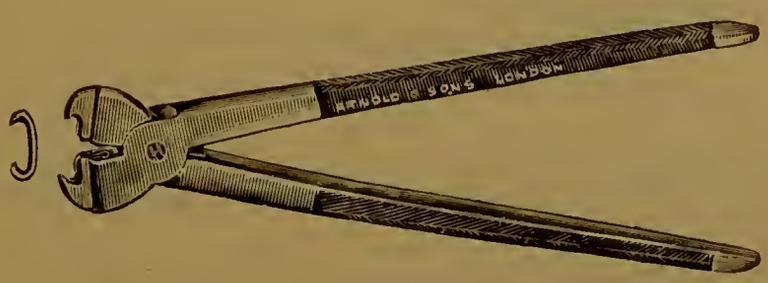


Fig. 848.

Sandcrack Forceps, with circular joint, superior, Fig. 848	0	18	6

Fig. 849.

Sandcrack Iron, Fig. 849		0	4	0
Ditto Clamps	per doz.	0	1	6
Ditto ditto	per gross	0	15	0
Ditto Instruments, consisting of forceps (Fig. 848), iron, and two dozen clamps		1	5	0

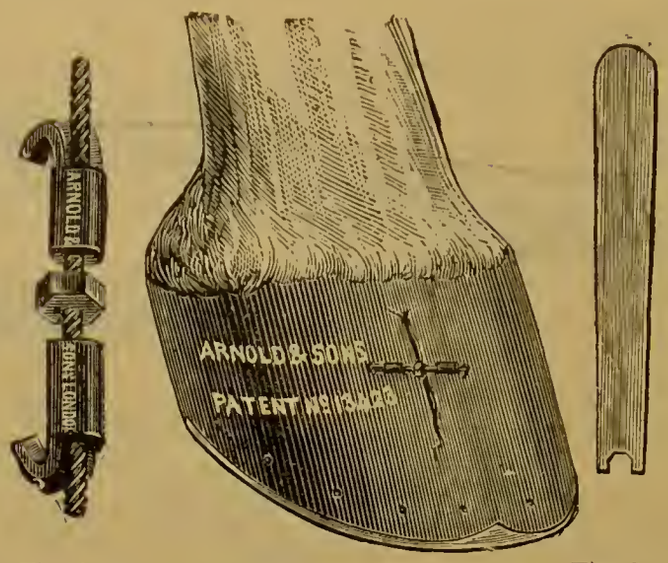


Fig. 850. Fig. 850A.

	£	s.	d.
Sandcrack Clamp (Prof. McGill's), Patented, Fig. 850	0	2	0
Spanner for ditto, Fig. 850A	0	1	0

Fig. 851.

Hoof Plane (Major Smith's), Fig. 851	0	5	6

Extract from "THE VETERINARIAN."

A new instrument has been brought out by Messrs. ARNOLD & SONS for the purpose of facilitating the cutting through of the wall of the foot in Smith's operation. It is known as a hoof plane, and it cuts a wide groove from the coronet to ground surface, and as deep as the white line, in the course of a minute or so.

Extract from "THE VETERINARY JOURNAL."

To those who practice hoof section this instrument will be found of value as a time and labour-saving appliance.

Extract from "THE VETERINARY RECORD."

A difficulty always exists in cutting through a piece of wall under the coronary secreting substance. This is said to be greatly facilitated by the hoof plane, which is used in short strokes and worked upwards against the piece of horn, which it entirely cuts or scrapes away in a few well applied strokes.

Fig. 852.

Sidebone Saw (Major Smith's), plain pattern, Fig. 852	0	7	6

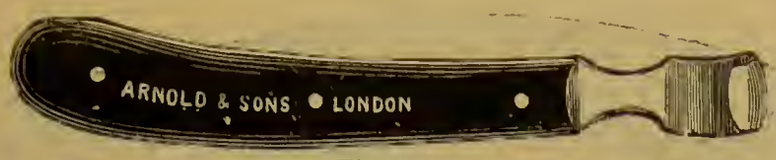


Fig. 853.

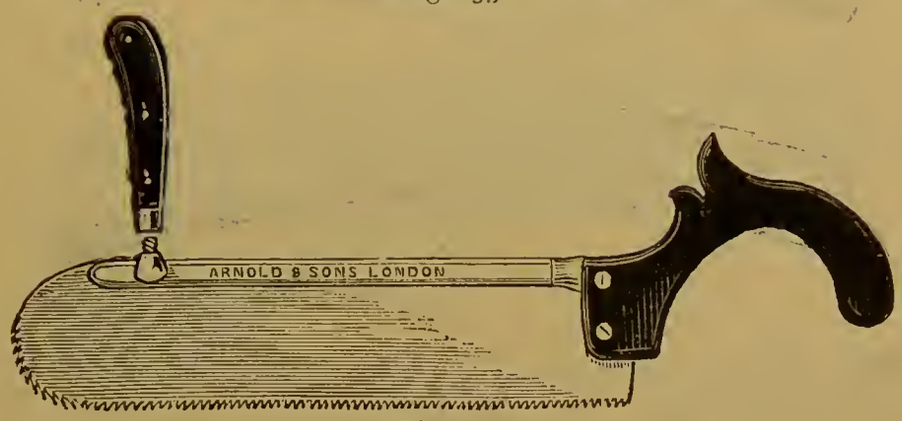


Fig. 854.

	£	s.	d.
Sidebone Saw and Knife (Major Smith's), in mahogany case, complete, Figs. 853 and 854	1	10	0

Fig. 855.

Fig. 856.

Drawing Knife, best quality (Long's, late High Holborn), Fig. 855,				single edge, each	0	1	6
Ditto	ditto	ditto		double edge ditto	0	2	0
Searcher	ditto	ditto	Fig. 856	single edge ditto	0	1	6
Ditto	ditto	ditto		double edge ditto	0	2	0

Messrs. ARNOLD & SONS having purchased the exclusive right to manufacture Long's drawing knives, beg to caution the profession against imitations.

Drawing Knife, second quality,			single edge	... ... each	0	1	0
Ditto	ditto	ditto	double edge	... ... ditto	0	1	6
Searcher,		ditto	single edge	... ... ditto	0	1	0
Ditto		ditto	double edge	... ... ditto	0	1	6

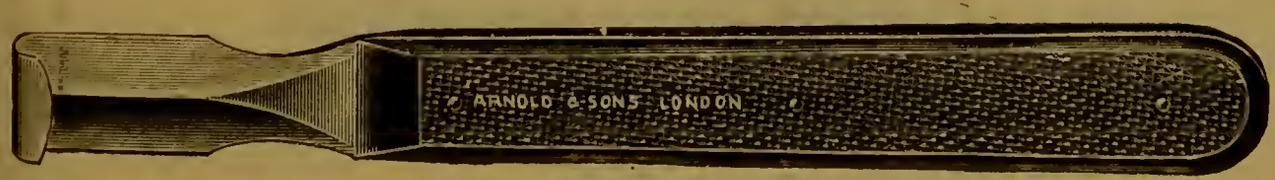


Fig. 857.

Drawing Knife (Army Pattern), double edge, with scale tang in ebony handle, Fig. 857	0	5	0

Fig. 858.

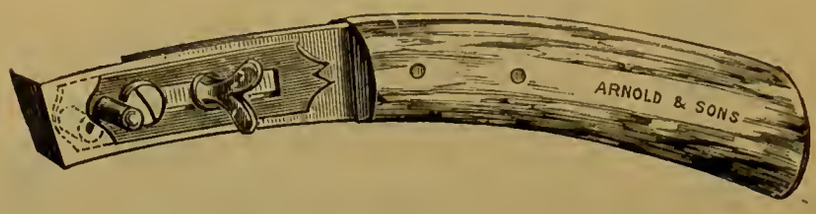


Fig. 859.

	£	s.	d.
Drawing Knife (Fleming's), graduated, with regulating slide, as devised for preparing the foot for the Charlier, Periplantar, or other kind of shoes, Figs. 858 and 859	0	7	0

Fig. 860.

Searcher, scale tang, in horn handle, for pocket case, Fig. 860 ...	0	2	6
Ditto in aseptic metal handle ditto	0	3	0

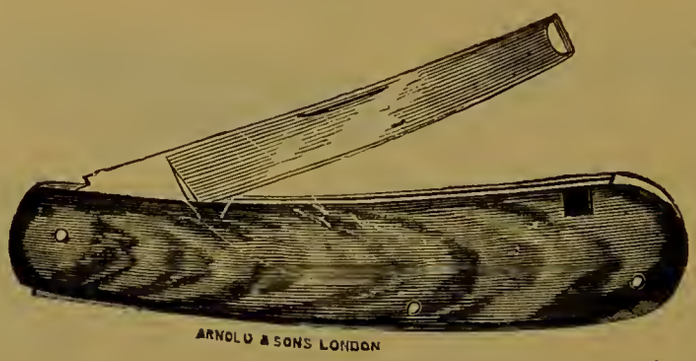


Fig. 861.

Drawing Knife, with spring back, in horn handle, Fig. 861 ...	0	4	0
Ditto ditto in aseptic metal handle ...	0	4	6

Fig. 862.

Drawing Knife, two bladed, with spring back, in horn handle, Fig. 862	0	7	0
Ditto ditto ditto in aseptic metal handle	0	7	6

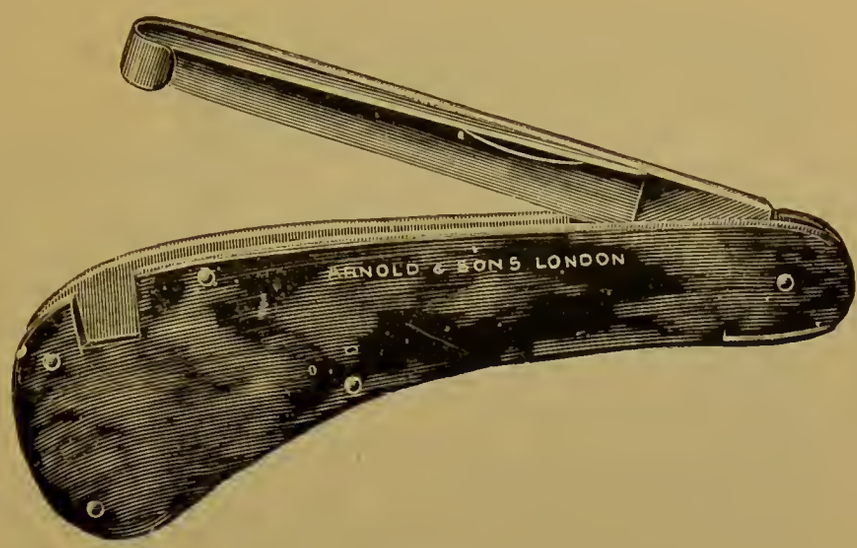


Fig. 863.

	£	s.	d.
Drawing Knife, with spring back and French catch, improved, in horn handle, Fig. 863	0	5	6

Fig. 864.

Fig. 865.

Fig. 866.

Fig. 867.

Fig. 868.

Fig. 869.

Shoeing Knives (French pattern), Figs. 864 to 869 ... ... each	0	3	6

Fig. 870.

	£	s.	d.
Shoeing Knives, set of five, fitting spring-socket handle, in case, complete, Fig. 870	1	5	0

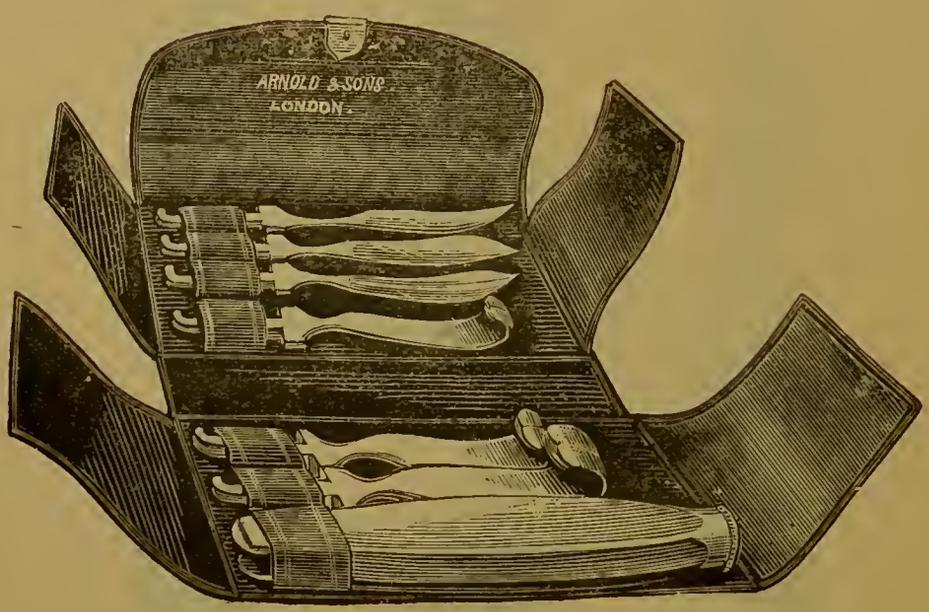


Fig. 871.

Shoeing Knives (Prof. Hobday's), set of six, fitting patent aseptic metal handle, in leather case, complete, Fig. 871	2	5	0

EXTRACT FROM "THE VETERINARIAN."

The above contains a complete set of shoeing knives of French pattern, including three Rennettes, a double "sage," and right and left cartilage knives, the whole fitting into one handle. The handle itself is patented, and can be very readily adjusted; all that is necessary is to slip the knife required for use into the socket of the handle and turn a screw at the bottom. It is then firmly fixed, and there is positively no danger to the operator from the blade slipping out.

The handle, made of white metal nickelled, can be rendered thoroughly aseptic.

I have for some time been convinced of the advantage of the French shoeing knives for the use of members of our profession as regards appearance, utility, and neatness, and feel sure that if they were more prominently brought forward they would certainly be more generally used

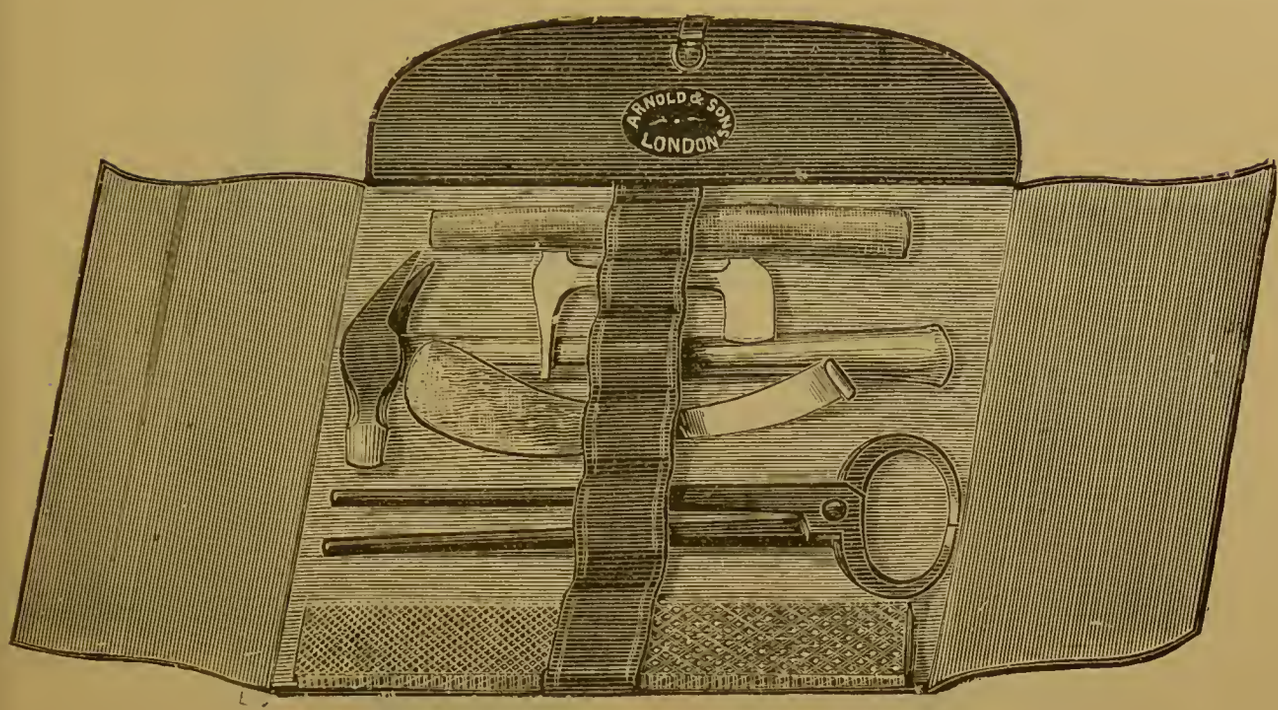


Fig. 872.

	£	s	d.
Farrier's Case, leather, containing pincers, hammer, buffer, rasp, drawing knife, and setting stone, complete, Fig. 872	1	1	0

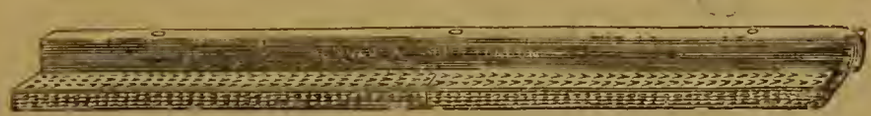


Fig. 873.

Shoeing Rasp (Charlier's), with guard, Fig. 873	0	4	0
Ditto plain pattern ... ... 14 in. 2s., 16 in.	0	2	6

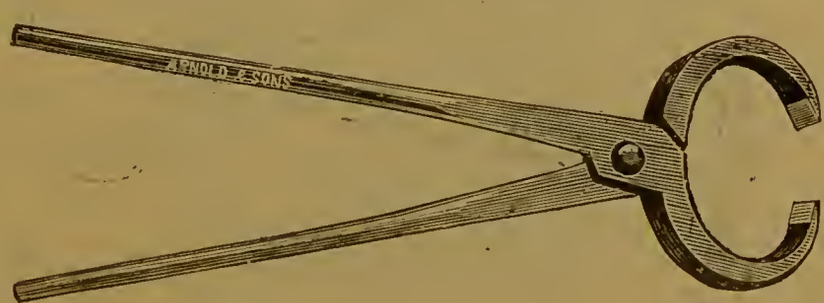


Fig. 874.

Shoeing Pincers, Fig. 874 ... ... 10 in. 2s. 0d., 12 in.	0	3	0
Ditto ditto superior ... ... 10 in. 3s. 6d., 12 in.	0	4	6

Fig. 875.

Shoeing Buffer, Fig. 875	0	1	6

Fig. 876.

	£	s.	d.
Shoeing Hammer, steel head, Fig. 876	0	1	6
Ditto ditto best cast steel head	0	3	6
Pointing ditto	0	1	6
Rounding ditto	0	3	6

Fig. 877.

Shoeing Hammer (Arnold & Sons'), with buffer and pincers combined, polished steel, Fig. 877	1	1	0

Fig. 878.

Shoeing Hammer (Dowell's), with buffer and pincers combined, with improved joint, to take apart, nickel-plated, Fig, 878 ...	1	10	0
Farriers Tongs ... ... 18 in. 2s., 22 in.	0	3	0

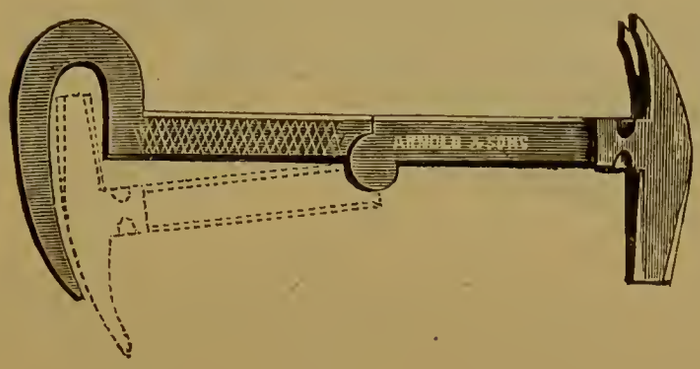


Fig. 879.

	£	s.	d.
Hoof Pick and Hammer, folding, Fig. 879	0	2	0
Ditto Picks ... ... 1s. and	0	1	6
Shoes (Charlier's), various sizes ... ... per set	0	5	0

Fig. 880.

Shoeing Pads (Downie & Harris' Patent), india-rubber, per pair, Fig. 880.

Size	0	1	2	3	4	5	6	7	8
	2/9	3/3	3/6	3/9	4/3	4/9	5/3	5/9	6/6

These pads (or cushions) are moulded in *soft rubber* to fit into the *frog* of the *horse's foot*, and *under* the *iron shoe*. They prevent lameness in *horses* by affording an elastic support and protection to the frog and foot, diminishing concussion, and thereby assisting those parts to perform more freely their natural functions.

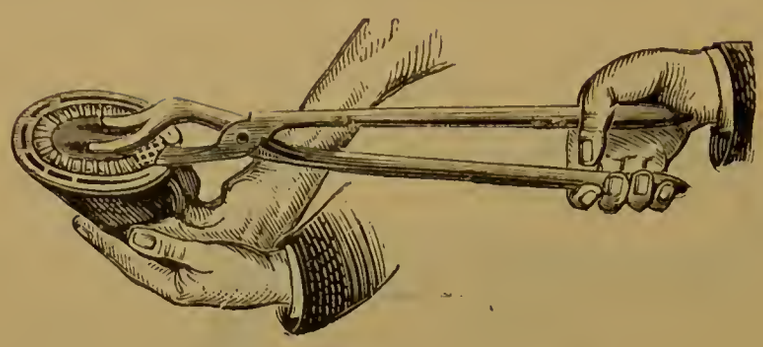


Fig. 881.

Shoeing Pads (Preist's Patent anti-concussion), lined with spongy rubber, Fig. 881.

No.	Width (inside shoe).	Length (inside shoe).	Per pair (either front or hind feet) £	s.	d.
1	$2\frac{1}{4}$ inches.	$3\frac{1}{8}$ inches.	0	5	0
2	$2\frac{1}{2}$,,	$3\frac{1}{4}$,,	0	5	6
3	$2\frac{5}{8}$,,	$3\frac{1}{2}$,,	0	6	0
4	$2\frac{7}{8}$,,	$3\frac{5}{8}$,,	0	6	6
5	3 ,,	$3\frac{3}{4}$,,	0	7	0
6	$3\frac{1}{4}$,,	$4\frac{1}{8}$,,	0	7	6
7	$3\frac{1}{2}$,,	$4\frac{1}{4}$,,	0	8	0
8	$3\frac{5}{8}$,,	$4\frac{3}{8}$,,	0	8	6
9	$3\frac{7}{8}$,,	$4\frac{1}{2}$,,	0	9	0
10	4 ,,	$4\frac{7}{8}$,,	0	9	6
11	$4\frac{1}{4}$,,	5 ,,	0	10	0

Fig. 882.

Shoeing Pads (Hartmann's Patent), Fig. 882.

No.	Width (inside shoe).	Length (inside shoe).	Per pair (either front or hind feet) £	s.	d.
1	$2\frac{1}{4}$ inches.	$3\frac{1}{8}$ inches.	0	4	6
2	$2\frac{1}{2}$,,	$3\frac{1}{4}$,,	0	5	0
3	$2\frac{5}{8}$,,	$3\frac{1}{2}$,,	0	5	6
4	$2\frac{7}{8}$,,	$3\frac{5}{8}$,,	0	6	0
5	3 ,,	$3\frac{3}{4}$,,	0	6	6
6	$3\frac{1}{4}$,,	$4\frac{1}{8}$,,	0	7	0
7	$3\frac{1}{2}$,,	$4\frac{1}{4}$,,	0	7	6
8	$3\frac{5}{8}$,,	$4\frac{3}{8}$,,	0	8	0
9	$3\frac{7}{8}$,,	$4\frac{1}{2}$,,	0	8	6
10	4 ,,	$4\frac{7}{8}$,,	0	9	0
11	$4\frac{1}{4}$,,	5 ,,	0	9	6

An exact impression of shoe required on paper for the size.

	£	s.	d.
Tongs, for inserting and removing the pads ... ... per pair	0	3	6

FROG.

Fig. 883.

GRIP.

Fig. 884.

PATENT BAR.

Fig. 885.

RING.

Fig. 886.

hoeing Pads (Urquhart's), Figs. 883 to 886.

	Size	Per pair. 1	Per pair. 2	Per pair. 3	Per pair. 4	Per pair. 5
'rog or Grip Pads, Figs. 883 & 884		2/0	2/3	2/6	2/10	3/3
'atent Bar ditto, Fig. 885	...	3/0	3/3	3/6	3/10	4/3
:ing ditto, Fig. 886	...	3/0	3/3	3/6	3/10	4/3
Measurements of leather		5 in. × 5 in.	5½ in. × 5½ in.	6 in. × 6 in.	6½ in. × 6½ in.	7 in. × 7 in.

Fig. 887.

hoeing Pads, Pneumatic, per pair, Fig. 887.

Size	3	4	5	6	7	8
	4/6	5/0	5/6	6/0	6/6	7/6

Fig. 888.

	£	s.	d.
'resses, for making Fleming's form of shoes, Fig. 888 per set of three	2	15	0

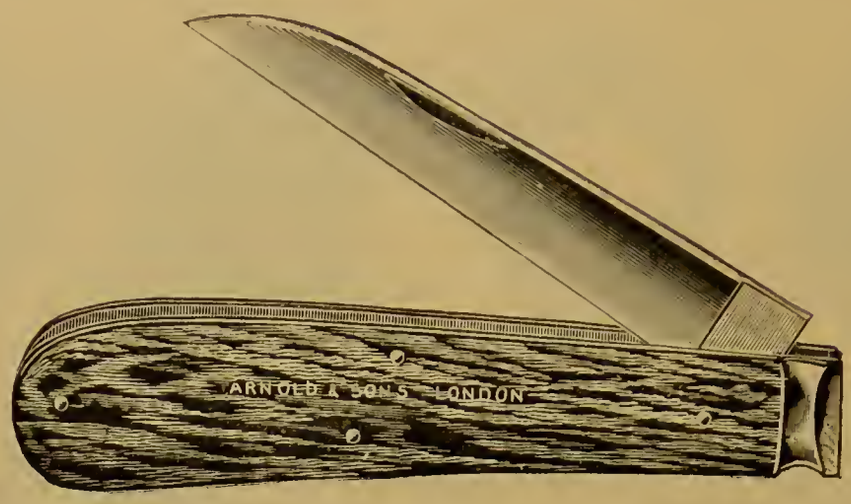


Fig. 889.

	£	s.	d.
Sheep Foot Knife, with spring back, in stag handle, Fig. 889 ...	0	1	6

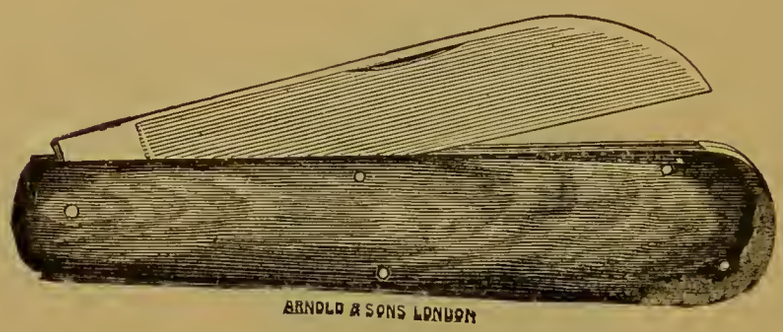


Fig. 890.

Sheep Foot Knife, superior, with spring back, in horn handle, Fig. 890	0	4	0

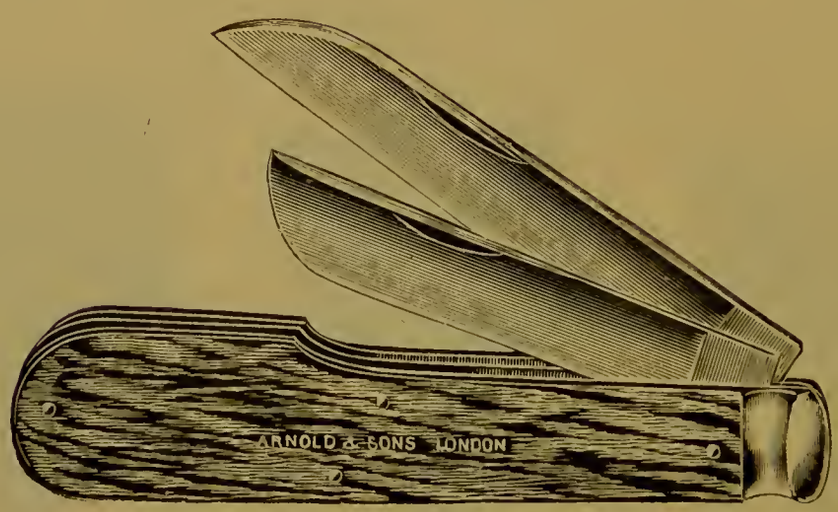


Fig. 891.

Sheep Foot Knife and Castrating Knife, with spring back, in stag handle, Fig. 891	0	3	0

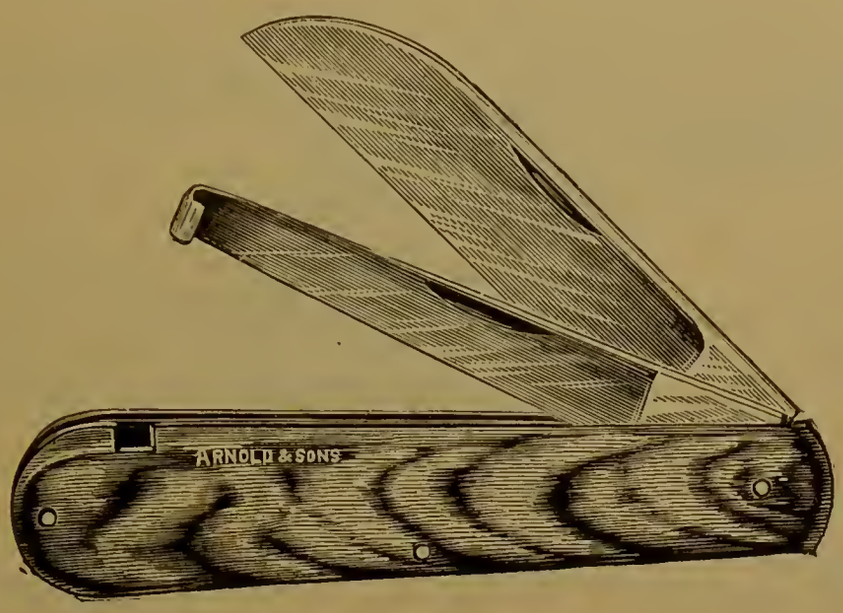


Fig. 892.

	£	s.	d.
Sheep Foot Knife and Drawing Knife, with spring back, in horn handle, superior, Fig. 892	0	7	0

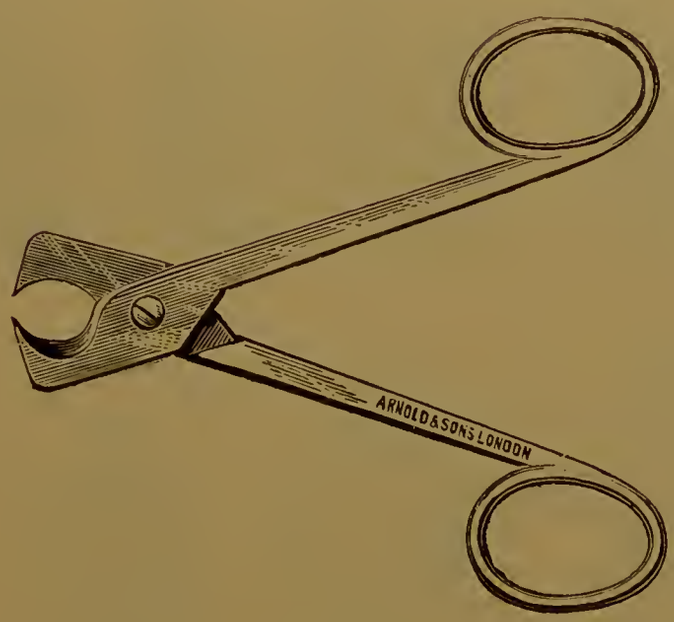


Fig. 893.

Dog Nail Forceps (Professor Hobday's), nickel plated, Fig. 893 ...	0	3	6

Fig. 894.

Dog Nail Forceps, Fig. 894	0	7	6

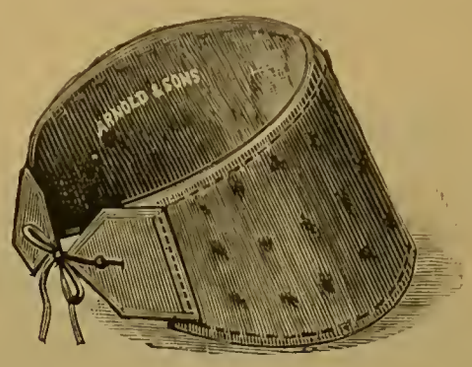


Fig. 895.

	£	s.	d.
Swabs, Felt (Arnold & Sons' Improved), for horses' feet, Fig. 895 per pair	0	10	0

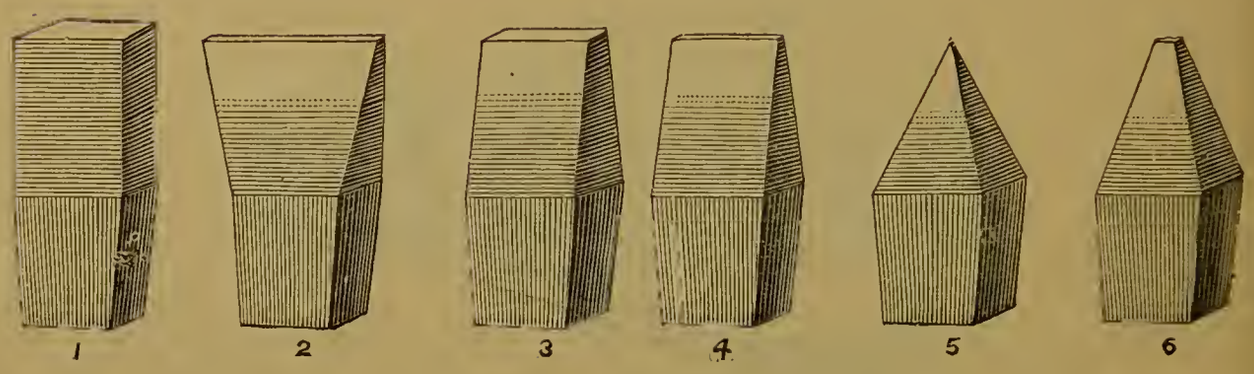


Fig. 896.

Frost Cogs, Steel (Arnold & Sons' Improved), Fig. 896, Nos. 1, 2, 3 small size, per doz.						0	2	6
Ditto	ditto	ditto	large size	ditto		0	3	0
Ditto	ditto	Nos. 4, 5, 6	small size	ditto		0	2	0
Ditto	ditto	ditto	large size	ditto		0	2	6
Ditto extra large size, suitable for brewers, coal merchants, &c. ... ... per doz.						0	3	6
One set, consisting of two dozen Cogs and two punches, complete small size						0	9	0
Ditto	ditto	ditto	ditto	...	large size	0	10	0

Suggested by Dr. Fleming, and recommended by the Society for the Prevention of Cruelty to Animals.

The above cogs are all hand-made, and of the very best steel, filed perfectly square to fit accurately, and are properly hardened and tempered.

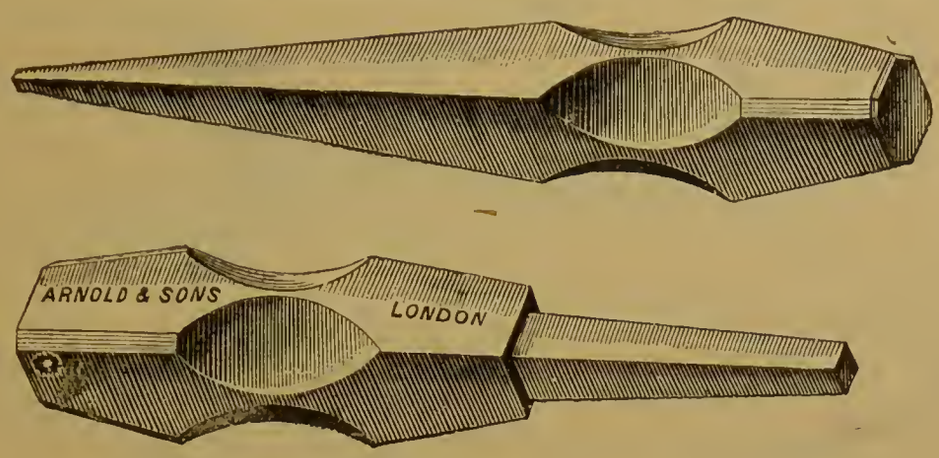


Fig. 897.

		£	s.	d.
Punches, for use with cogs, Fig. 897	per pair	0	5	0
Shoe, with hole punched as a pattern for the farrier		0	1	0

Extract of Letter received from S. J. SOUTHEY, Esq., The Firs, Wrexham.

"I have used your 'Frost Cogs' for the last five years with the greatest satisfaction, and without losing a single one, and can strongly recommend them as the best and simplest means of roughing horses."

Extract of Letter received from C. T. S. BIRCH-REYNARDSON, Esq., Holywell Hall, Stamford.

"The 'Frost Cogs' that I had from you last year answered *so* well, that I should be glad if you would be so good as to send me a few of your circulars and drawings of the shoes, cogs, punches, &c., &c., and I only hope that they may be the means of opening people's eyes to a very *simple* way of keeping their horses on *their* legs, and from breaking *their* knees, and perhaps *their* owners' *necks*, in frosty weather."

Extract of Letter received from W. B. HULTON, Esq., Hulton Park, Bolton-le-Moors.

"I purchased from you last winter some small cogs and two punches, for a pony, with which I am well pleased, and shall now be obliged if you will send me about four dozen cogs and pair of punches, suitable for full-sized carriage horses, 16·1 hands."

Extract of Letter received from THOMAS BLAND GARLAND, Esq., Hillfields, Reading.

"Please to send me six dozen by post to-morrow, exactly like these. I used them last winter, and several times this winter, for carriage work, two in the heels of each shoe, and have only lost one cog, from, I believe, a defect in punching the hole."

Fig. 898.

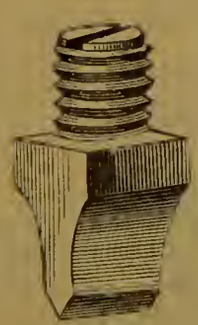


Fig. 899.

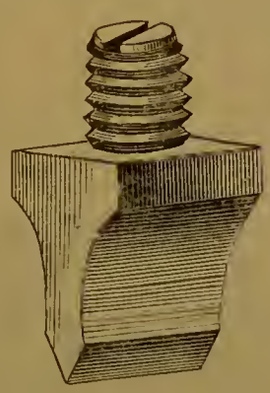


Fig. 900.

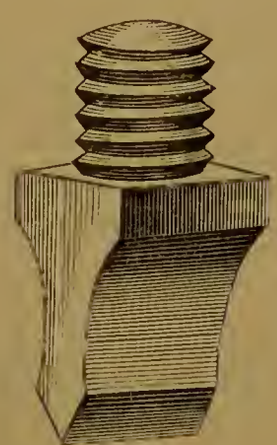


Fig. 901.

The above Woodcuts are the exact sizes of the Frost Cogs.

Screw Frost Cogs, $\frac{5}{16}$ in. screw, Fig. 898	per doz.	0	2	6
Ditto ditto $\frac{3}{8}$ ditto Fig. 899	ditto	0	2	6
Ditto ditto $\frac{3}{8}$ ditto Fig. 900	ditto	0	3	0
Ditto ditto $\frac{1}{2}$ ditto Fig. 901	ditto	0	3	6
Blanks for Fig. 898	ditto	0	2	6
One set, consisting of two dozen Cogs (Fig. 898), with two steel taps and spanner, complete		0	10	0
Steel Taps, for $\frac{5}{16}$ or $\frac{3}{8}$ in.	per pair	0	3	6
Spanners	... each	0	1	0

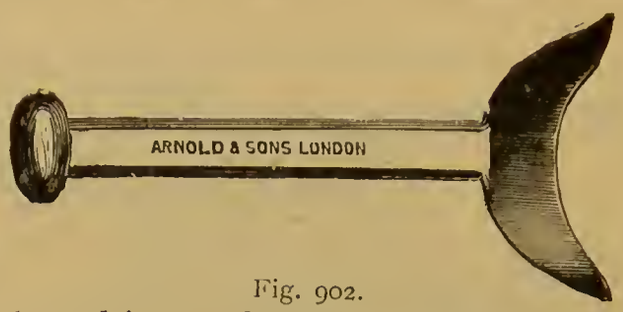


Fig. 902.

Rounding Irons, for hounds' ears, three sizes, Fig. 902 10s. 6d., 12s. 6d. and — £ 0, s. 15, d. 0

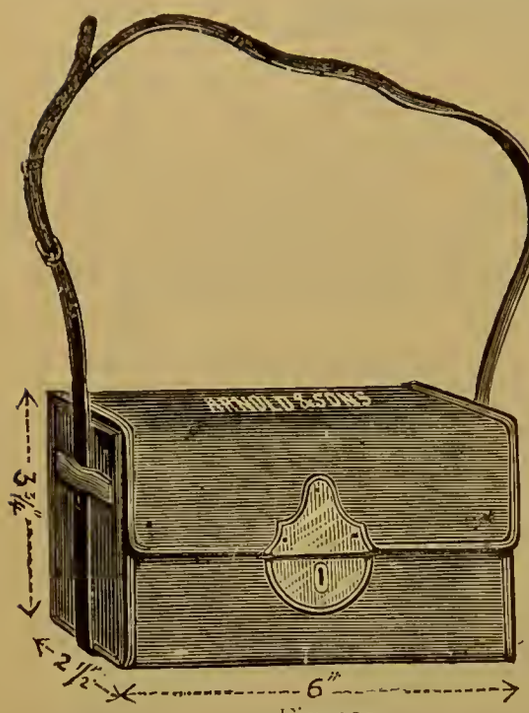


Fig. 903.

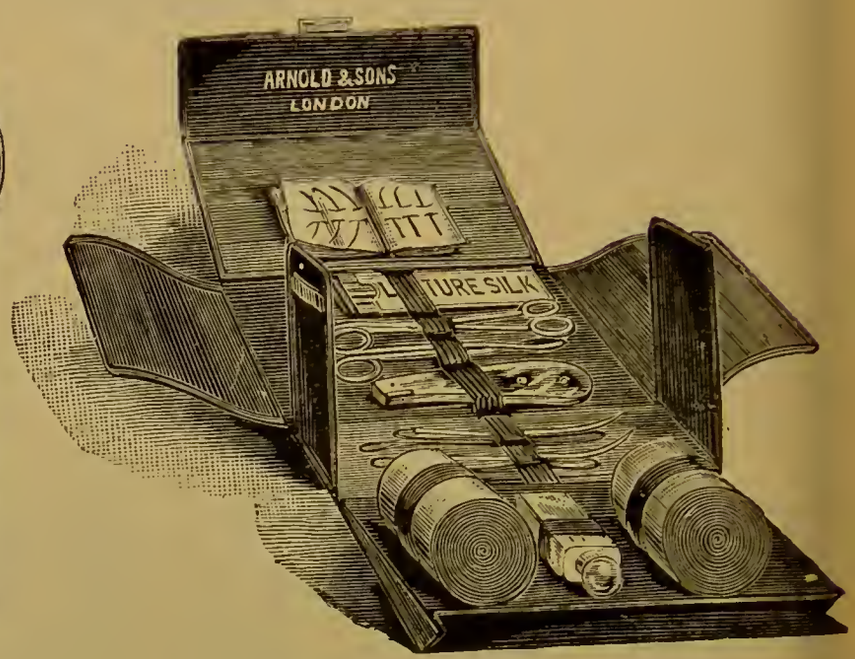


Fig. 904.

Hunting Companion (Sir H. Simpson's), Figs. 903 and 904, containing—

Dressing Scissors.	Six Suture Needles for silk, &c.
Ditto Forceps.	Tablet Silk.
Two Bull Dog Artery Forceps.	Silver Probe.
Scalpel in spring back, horn handle.	Two Bandages.
Two Suture Needles with Metallic Wire	Screw Capped Bottle.

The above, in portable leather case, complete 2 2 0

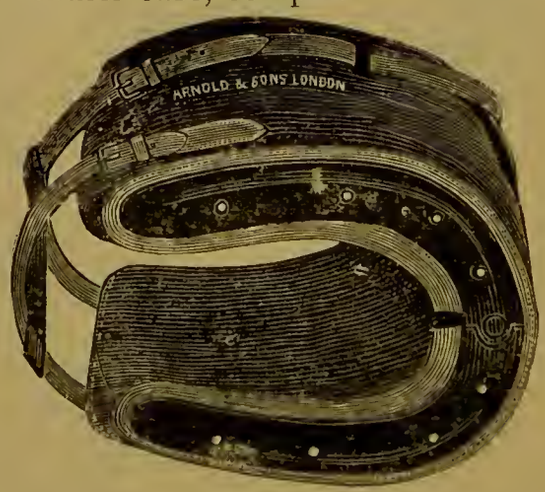


Fig. 905.

Hunting Shoe (Arnold & Sons' Improved jointed), to be temporarily applied in case of losing a shoe, will fit any size foot, with leather straps, complete, Fig. 905 ... ... 0 15 0

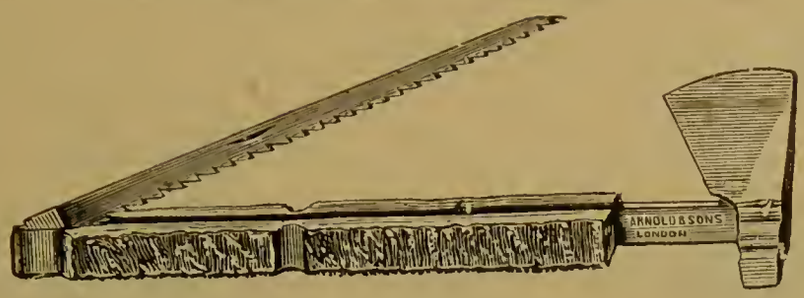


Fig. 906.

	£	s.	d.
Hunting Hatchet, with hammer and saw, in rosewood handle, Fig. 906	1	10	0
Ditto ditto ditto and knife	1	10	0
Ditto ditto ditto ditto and saw	2	2	0

Fig. 907.

Hunting Hatchet, with hammer, in fixed rosewood handle, Fig. 907	0	17	6

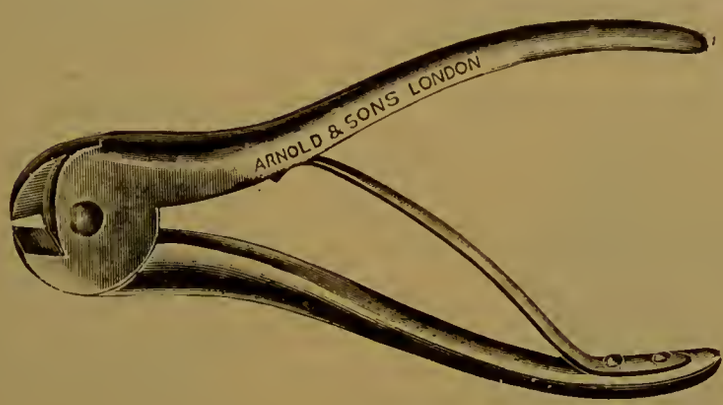


Fig. 908.

Huntsman's Wire Nippers, without spring	0	2	6
Ditto ditto with spring, Fig. 908	0	3	0

Fig. 909.

Boar and Tiger Hunting Knife, Fig. 909	1	1	0

Fig. 910.

Forceps for extracting thorns, Fig. 910	0	3	6

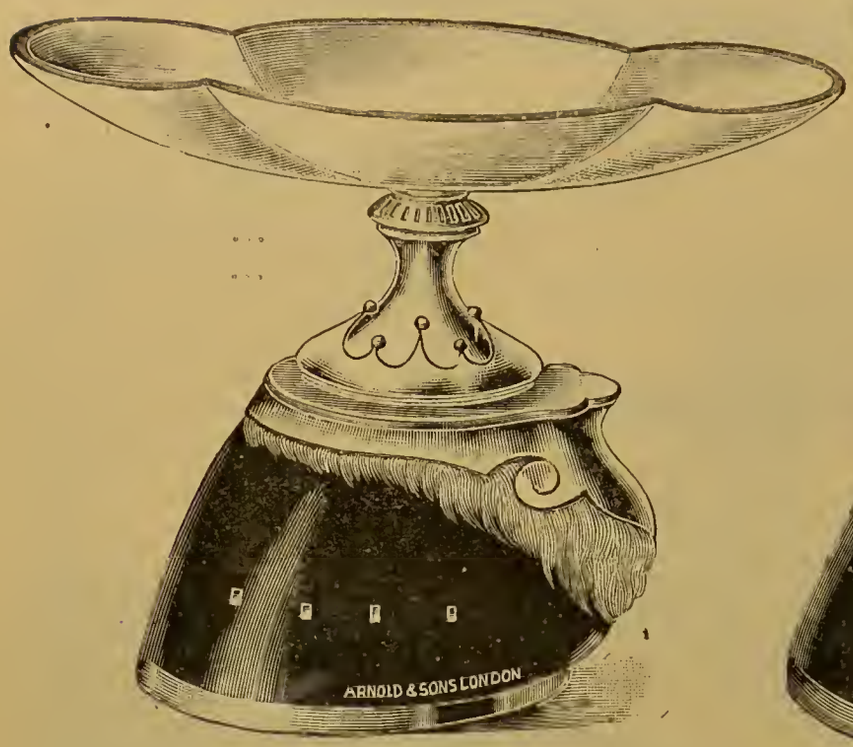


Fig. 911.

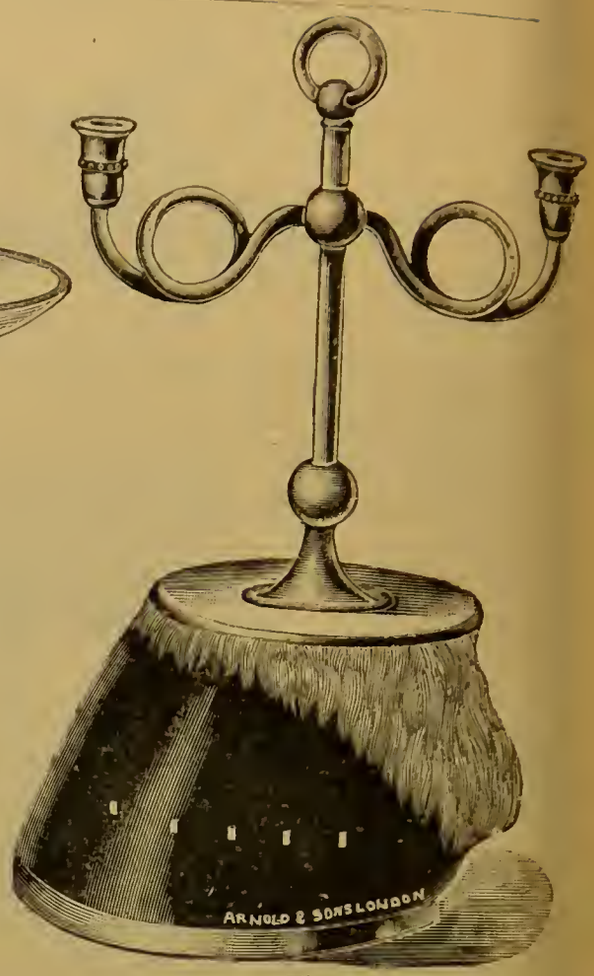


Fig. 912.

Horses' Hoofs, prepared, and mounted in gold, silver or electro plate, as Flower Dish, Fig. 911.
Ditto ditto ditto ditto as Candlesticks, Fig. 912.

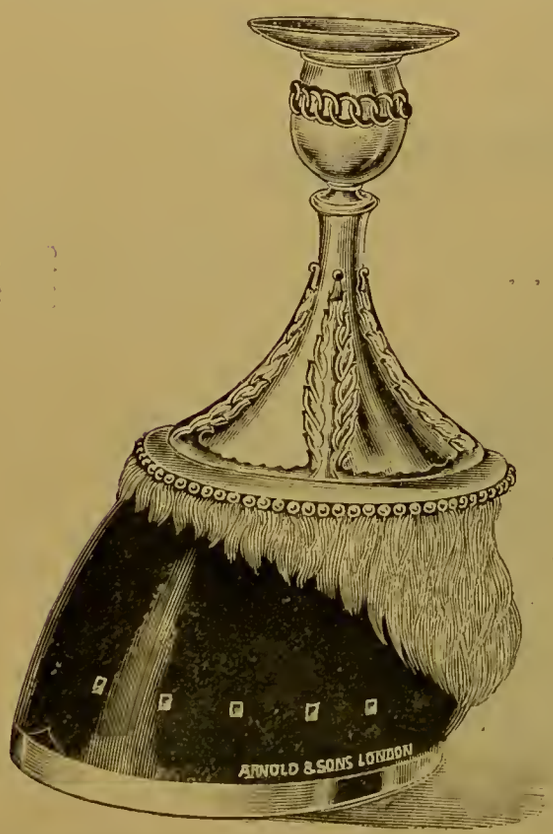


Fig. 913.

Fig. 914.

Horses' Hoofs, prepared, and mounted in gold, silver or electro plate, as Candlestick, Fig. 913.
Ditto ditto ditto ditto and Matchbox, Fig. 914.

Fig. 915.

Fig. 916.

Horses' Hoofs, prepared, and mounted in gold, silver, or electro plate, as Hand Bell, Fig. 915.
Ditto ditto ditto ditto as Pin Cushion, Fig. 916.

Fig. 917.

Fig. 918.

Horses' Hoofs, prepared, and mounted in gold, silver or electro plate, as Inkstand, Fig. 917.
Ditto ditto ditto ditto Fig. 918.
Ditto ditto ditto ditto and Penrack.

Fig. 919.

Fig. 920.

Horses' Hoofs, prepared, and mounted in gold, silver or electro plate, as Ash Tray, Fig. 919.
Ditto ditto ditto ditto as Matchbox and Cigar Holder, Fig. 920.

The hoof is required, that size and condition may be known, and likewise how it is desired to be mounted, before giving an estimate.

Measuring Standards, Cattle Gauges, &c.

Fig. 921.

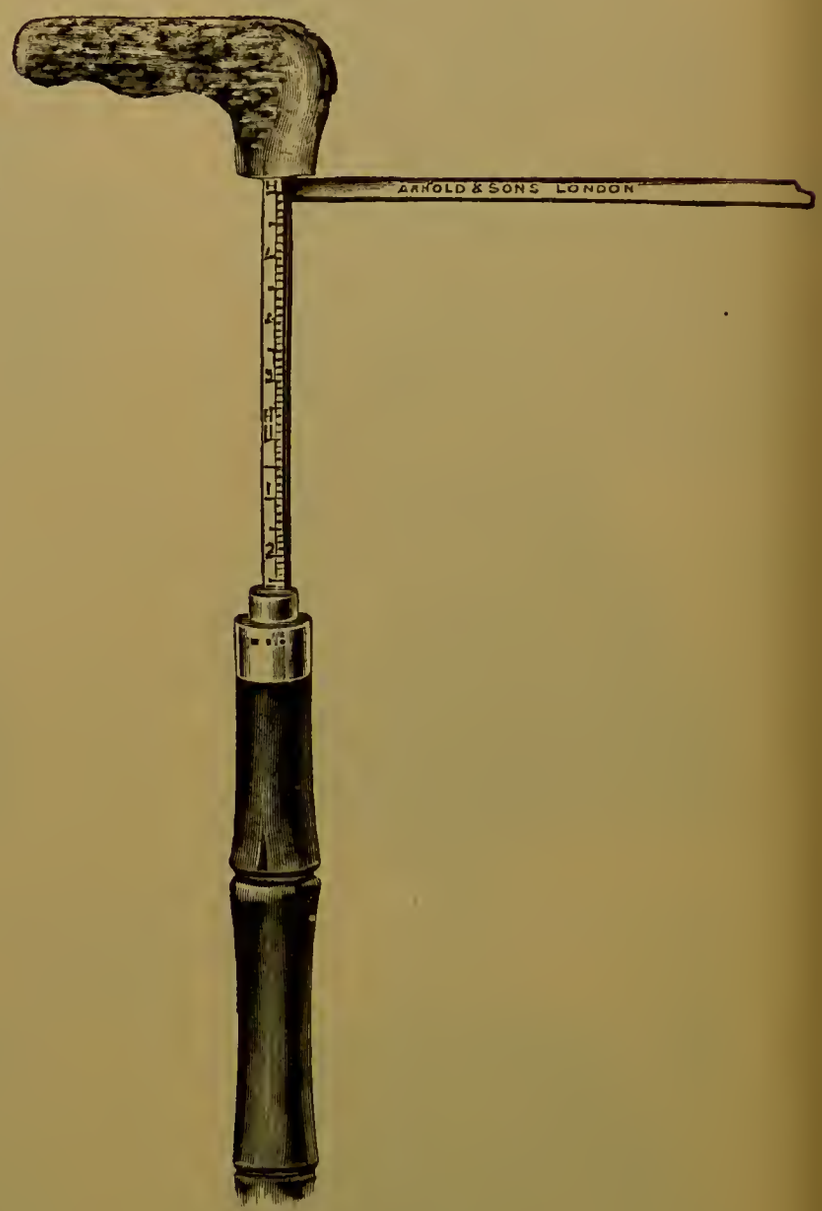


Fig. 922.

	£	s.	d.
Walking Stick Standard, bamboo, plain pattern, Fig. 921	0	10	6
Ditto ditto ditto ditto with boxwood measure, and fixed buckhorn handle, Fig. 922	0	17	6

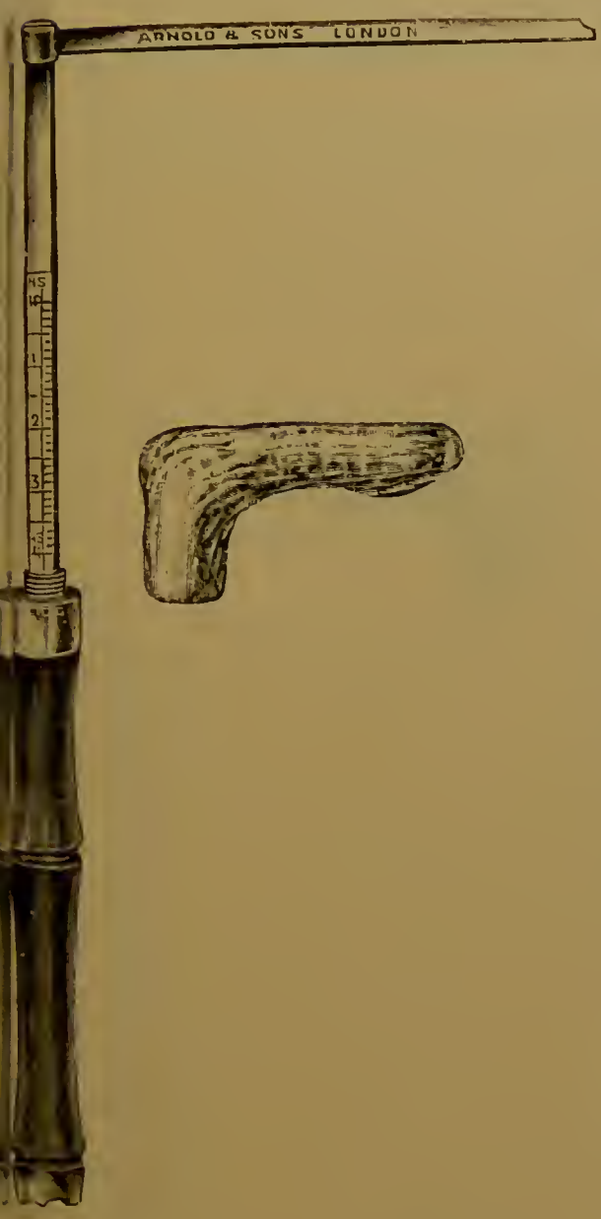


Fig. 923.

Fig. 924.

	£	s.	d.
Walking Stick Standard, bamboo, with brass measure and buck-horn handle to unscrew, Fig. 923	1	0	0
Ditto ditto ditto ditto with boxwood measure, spirit level, and silver mount, Fig. 923...	1	5	0
Ditto ditto ditto ditto with brass measure, spirit level, and silver mount, Fig. 924	1	7	6
Ditto ditto ditto ditto with aluminium measure, spirit level, and silver mount, extra light, Fig. 924	1	10	0

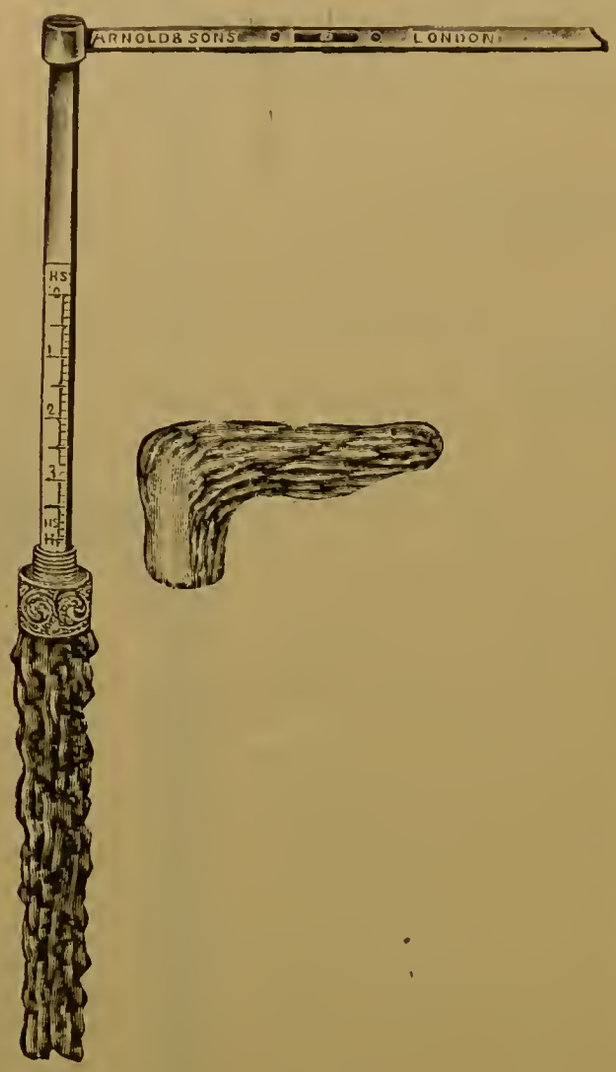


Fig. 925.

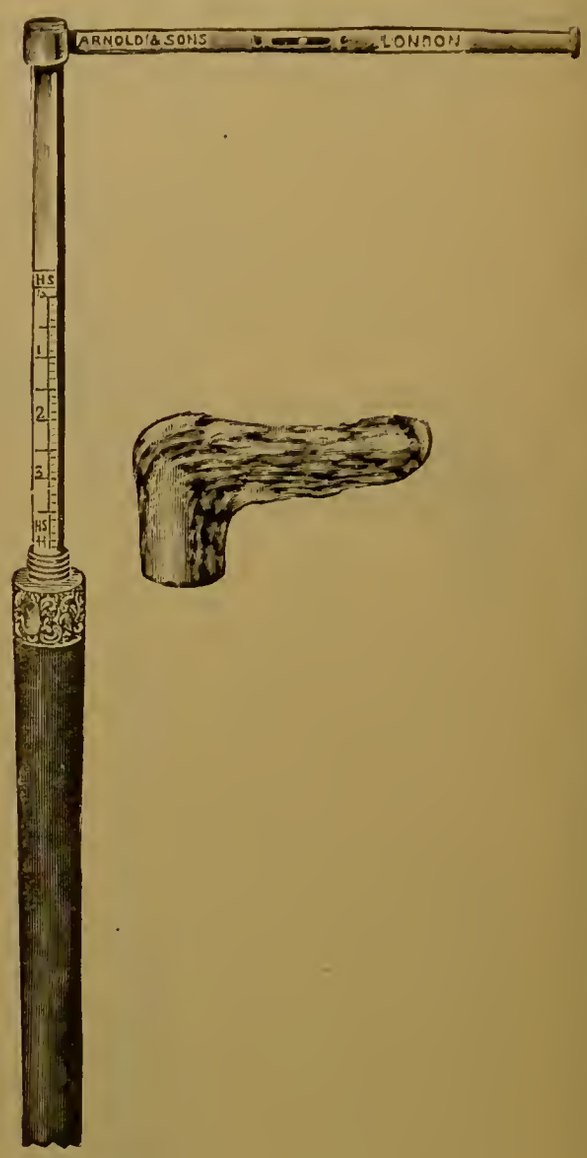


Fig. 926.

	£	s.	d.
Walking Stick Standard, in ash, hazel, oak, cherrywood, &c., silver-mount, with brass measure, spirit level, and buckhorn handle to unscrew, Fig. 925	1	7	6
Ditto ditto ditto very superior, in rattan cane or malacca, silver-mount, with brass measure, spirit level, and buckhorn handle to unscrew, Fig. 926	1	10	0

Fig. 927.

Fig. 928.

	£	s.	d.
Walking Stick Standard, in cherrywood or malacca, silver knob and mount, with boxwood measure and spirit level, Fig. 927 ...	1	10	0
Ditto ditto ditto in cherrywood or hazel, silver knob and mount, with brass measure and spirit level, very superior, Fig. 928	1	15	0

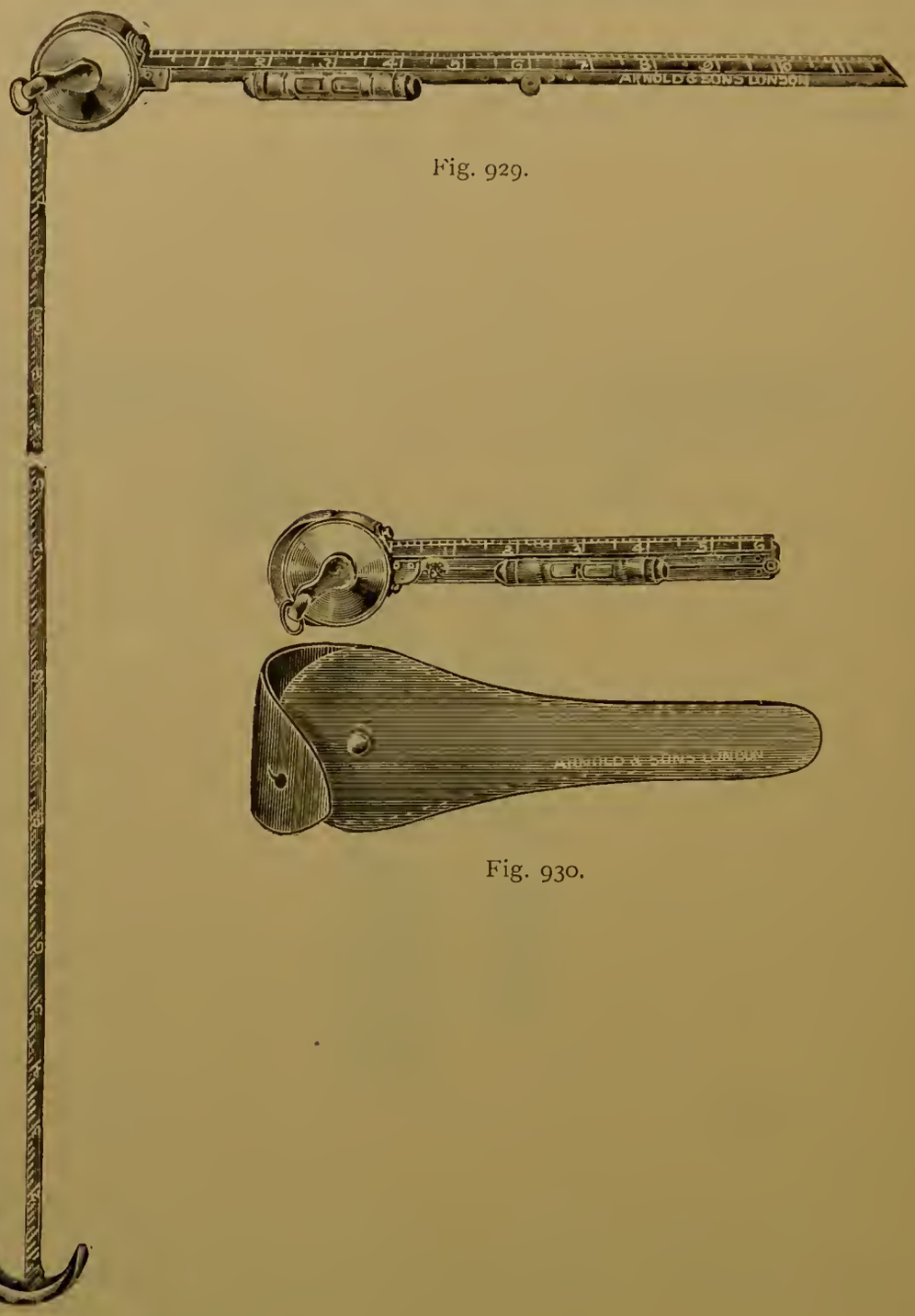


Fig. 929.

Fig. 930.

	£	s.	d.
Measuring Tape, in brass case, boxwood rule, and spirit level, very portable, in leather pouch, complete, Figs. 929 and 930 ...	0	12	6

Fig. 931.

Fig. 932.

	£	s.	d.
Measuring Standard for dogs, with brass measure and spirit level, in malacca, portable, Fig. 931	1	1	0
Ditto ditto ditto with brass measure, telescopic and spirit level, in brass case, very portable, Fig. 932	1	1	0

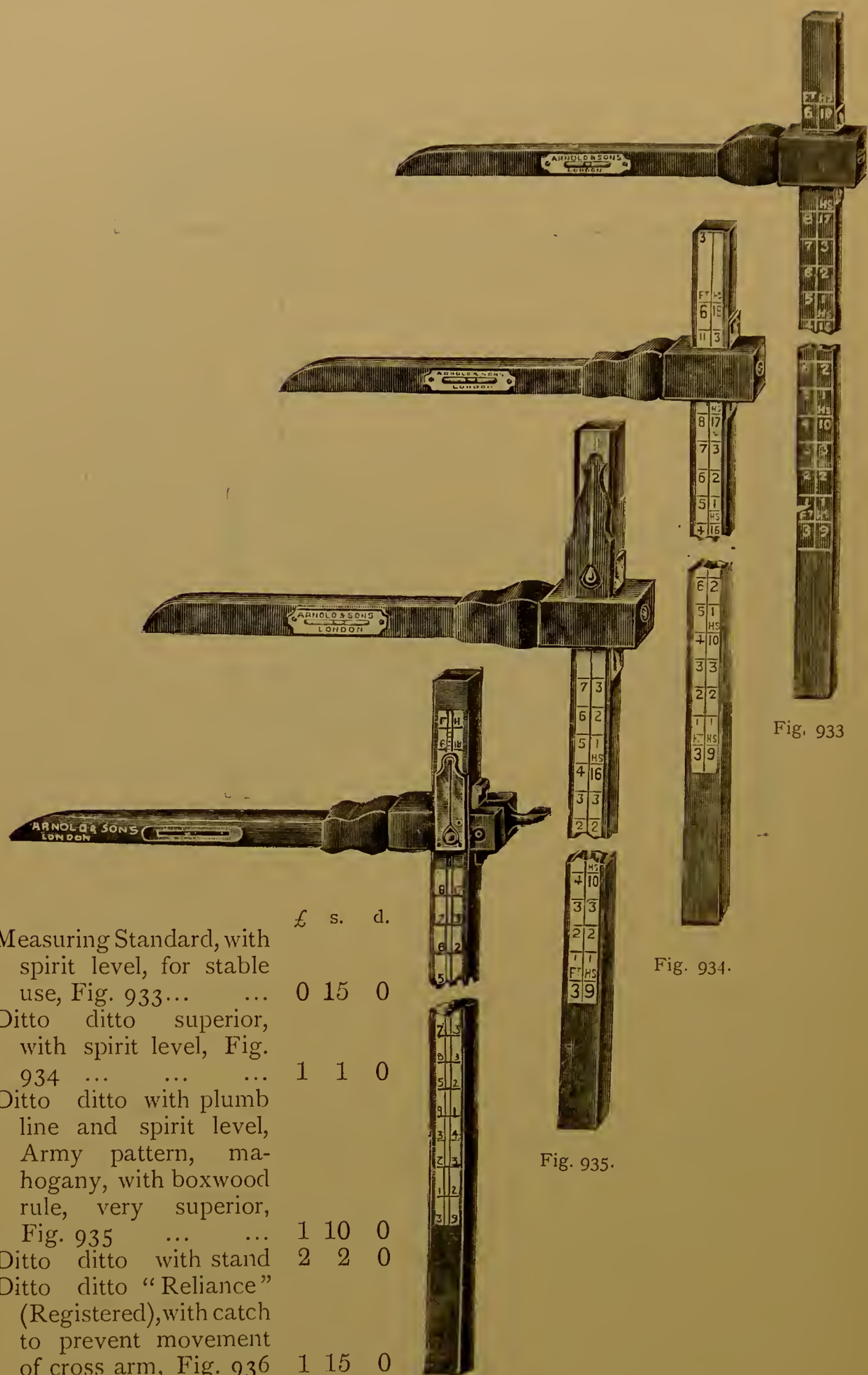


Fig. 933

Fig. 934.

Fig. 935.

Fig. 936.

	£	s.	d.
Measuring Standard, with spirit level, for stable use, Fig. 933... ...	0	15	0
Ditto ditto superior, with spirit level, Fig. 934	1	1	0
Ditto ditto with plumb line and spirit level, Army pattern, mahogany, with boxwood rule, very superior, Fig. 935	1	10	0
Ditto ditto with stand	2	2	0
Ditto ditto "Reliance" (Registered), with catch to prevent movement of cross arm, Fig. 936	1	15	0

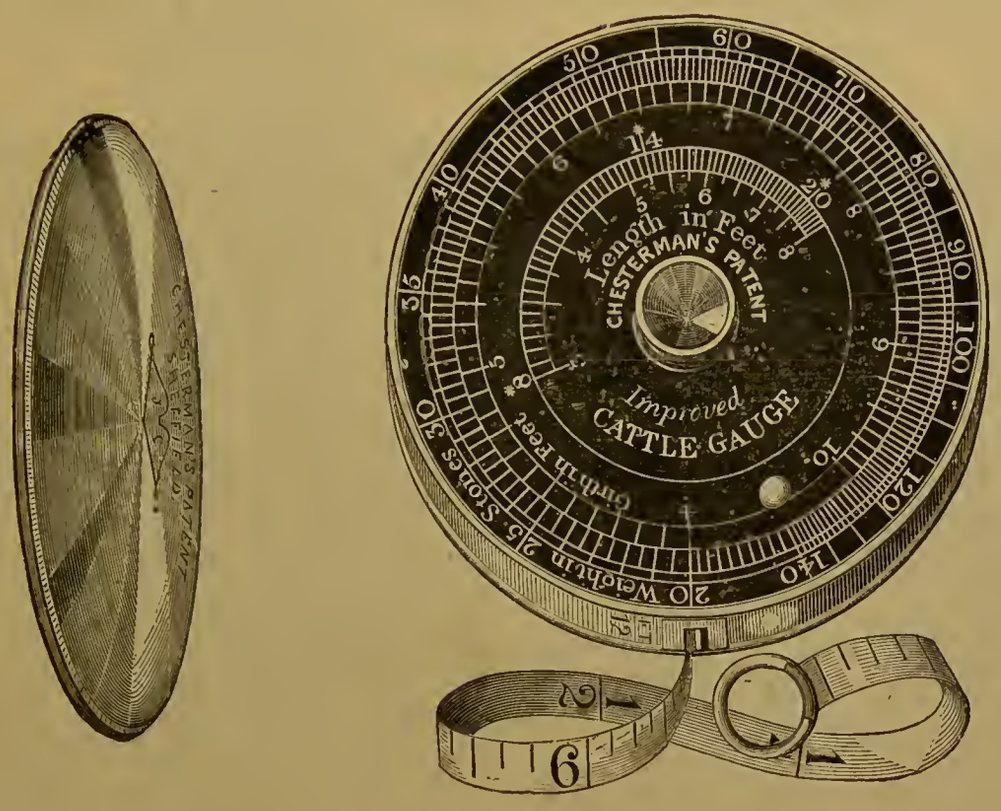


Fig. 937.

	£	s.	d.
Cattle Gauge, with linen tape (12 ft.) for ascertaining the weight of cattle by measurement, with directions, in brass case, Fig. 937	0	8	6
Ditto ditto ditto ditto in plated case ...	0	9	6
Ditto ditto steel tape ditto in ditto	0	12	6

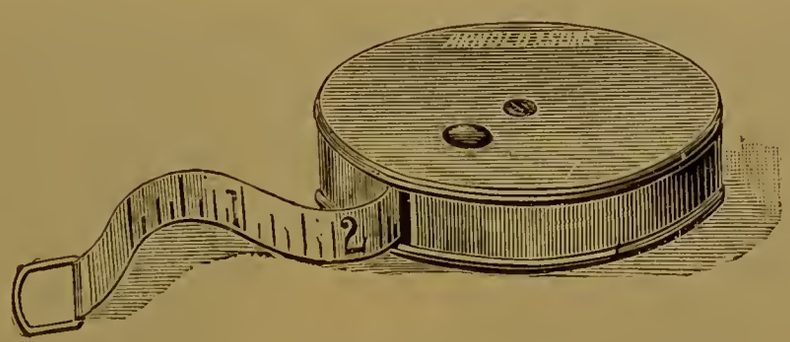


Fig. 938.

	£	s.	d.
Measure, superior, 5 ft. with spring stop, English and French scales, linen tape, in plated case, Fig. 938	0	3	0
Ditto steel tape ditto ditto	0	4	6
Ditto second quality, linen tape, 3 ft., in brass case ...	0	1	6
Ditto ditto ditto 5 ft. ditto ...	0	2	0
Ditto ditto ditto 6 ft. ditto ...	0	2	6
Ditto ditto ditto 3 ft., in plated case ...	0	2	0
Ditto ditto ditto 5 ft. ditto ...	0	2	6
Ditto ditto ditto 6 ft. ditto ...	0	3	0

Clipping, Trimming, and Singeing Instruments.

Fig. 939.

	£	s.	d.
Horse Clipping Machine (Burman's improved), Fig. 939	7	10	0

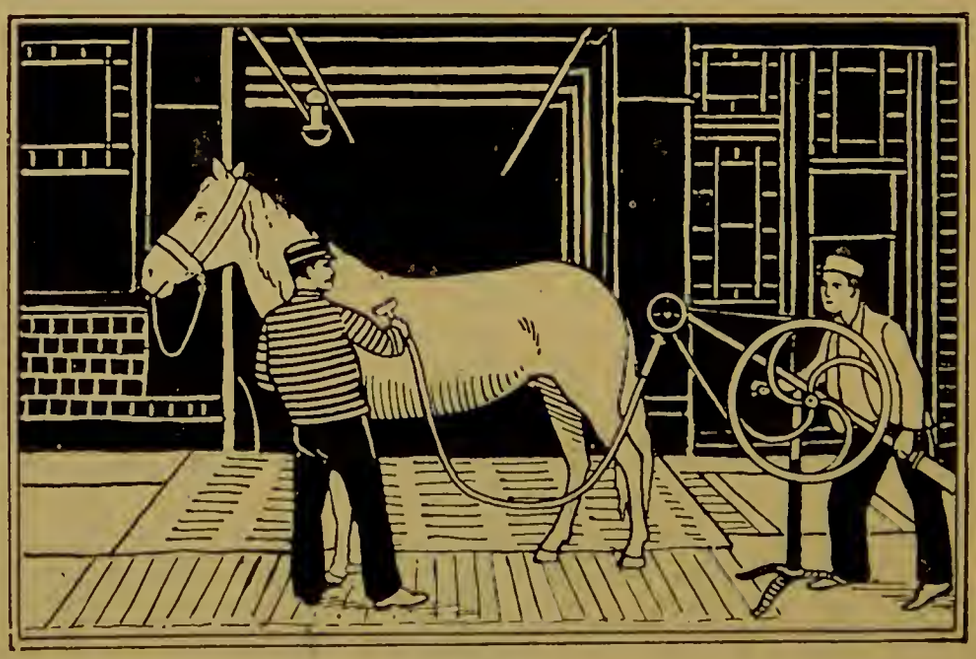


Fig. 940.

Horse Clipping Machines (Barton-Gillette), can be driven by hand or any mechanical power, Fig. 940 ... ... £5 15s. and	7	10	0

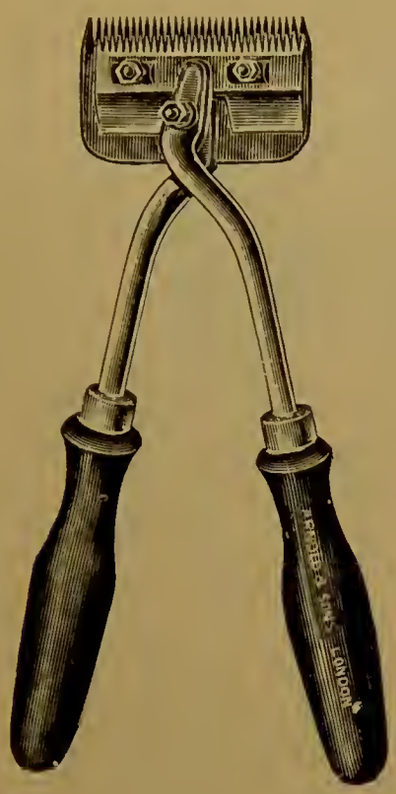


Fig. 941.

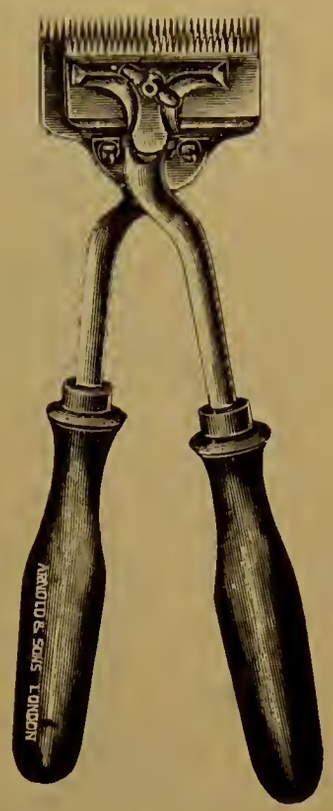


Fig. 942.

	£	s.	d.
Horse Clipper, plain pattern, Fig. 941	0	5	0
Ditto superior, Fig. 942	0	8	0

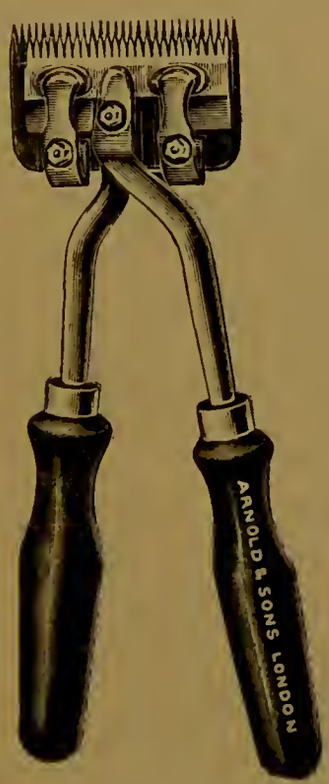


Fig. 943.

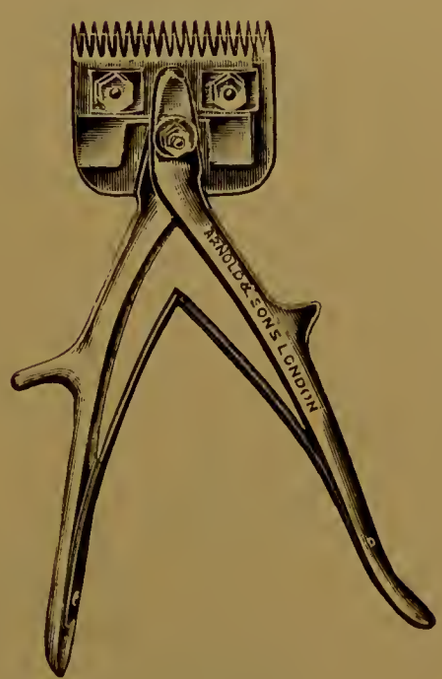


Fig. 944.

Horse Clipper, improved, with grasshopper springs, Fig. 943 ...	0	10	6
Ditto for trimming legs and heads, Fig. 944	0	7	6

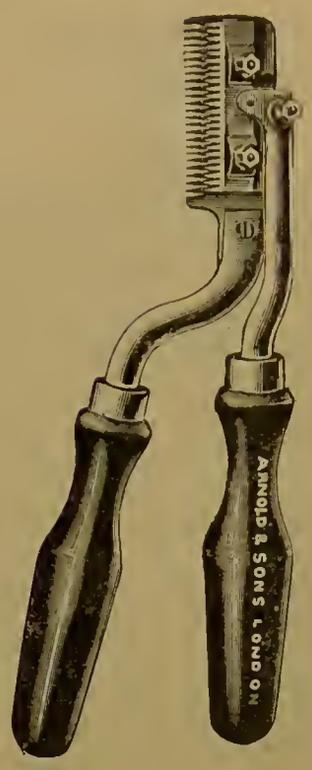


Fig. 945.

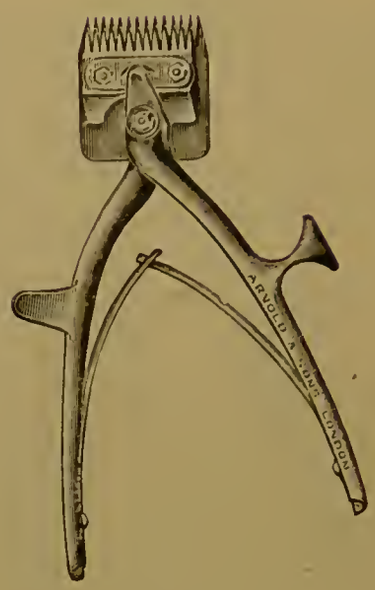


Fig. 946.

	£	s.	d.
Horse Clipper, for trimming legs, Fig. 945	0	7	0
Dog ditto Fig. 946	0	8	6

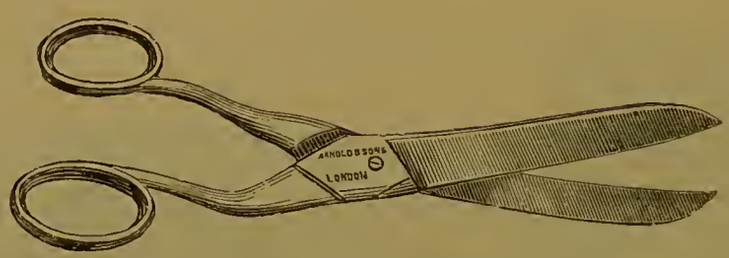


Fig. 947.

Clipping Scissors, with curved blades and shanks, very superior, Fig. 947 ... ... 7 in., 4s. 6d.; 8 in.	0	5	6

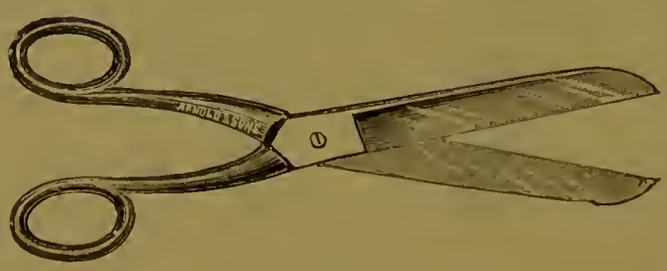


Fig. 948.

Trimming Scissors, straight, Fig. 948, 6 in., 2s. 6d.; 7 in., 3s.; 8 in.,	0	4	0

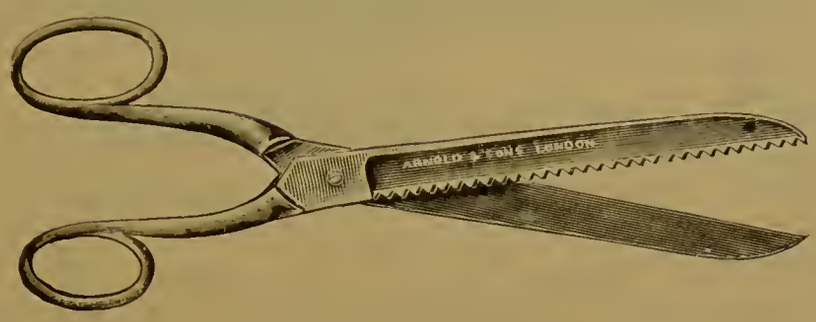


Fig. 949.

	£	s.	d.
Trimming Scissors, "Reliance," Patented, straight, with teeth to prevent hair slipping, Fig. 949 ... ... 7 in. 4s.; 8 in.	0	5	0

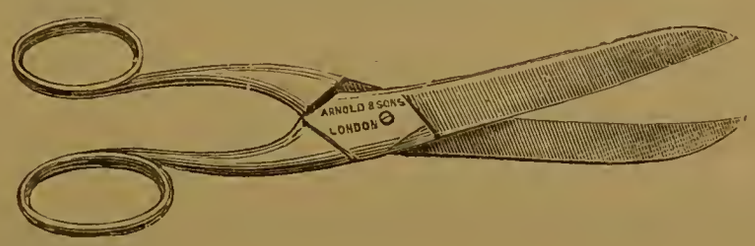


Fig. 950.

Trimming Scissors, with curved blades, very superior, Fig. 950, 7 in., 4s.; 8 in.,	0	4	6

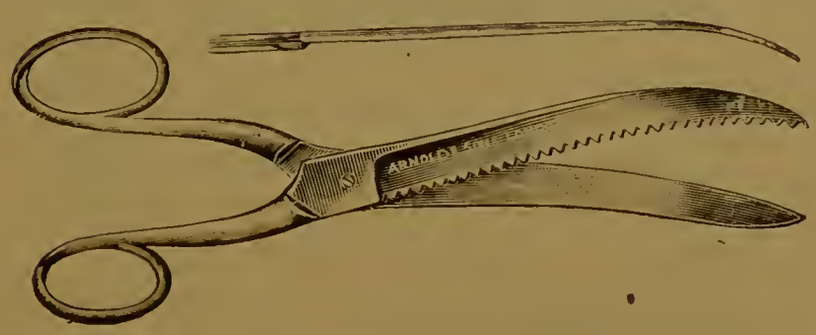


Fig. 951.

Trimming Scissors "Reliance," Patented, curved blades, with teeth to prevent hair slipping, Fig. 951... ... 7 in. 5s.; 8 in.	0	5	6

Fig. 952.

Marking Scissors, Fig. 952 ... ... 6 in., 2s. 6d., 7 in.	0	3	0

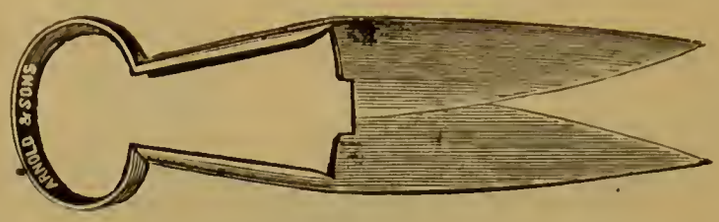


Fig. 953.

	£	s.	d.
Sheep Shears, straight, superior, Fig. 953	0	3	0

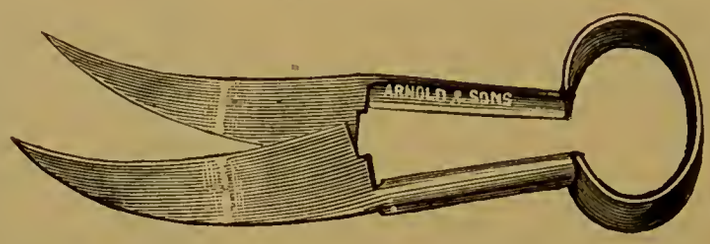


Fig. 954.

Sheep Shears, curved, superior, Fig. 954	0	3	6

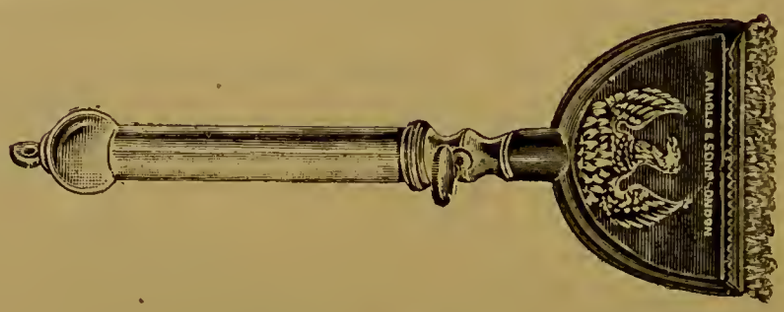


Fig. 955.

Singeing Lamp, for spirit, with brass handle, and copper head ...	0	2	6
Ditto ditto ditto with tap, Fig. 955	0	5	6

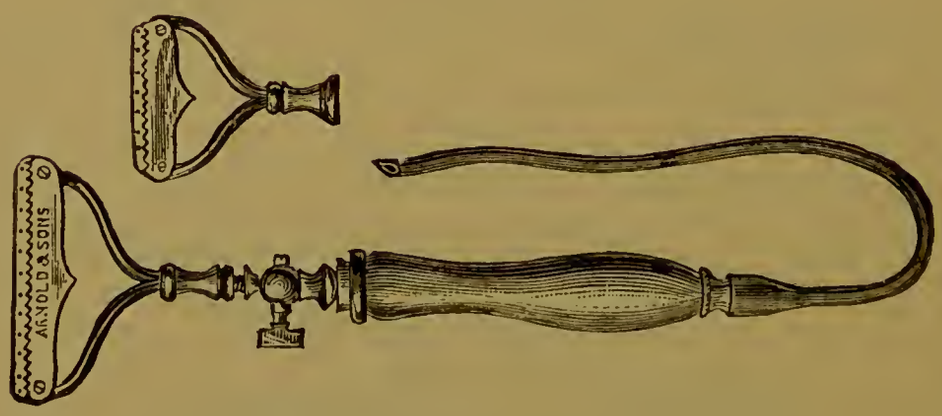


Fig. 956.

Singeing Apparatus, for gas, with two burners, without tubing, Fig. 956	0	7	6
Ditto ditto ditto with 10 feet india rubber tubing, complete, Fig. 956	0	12	0

Fig. 957.

	£	s.	d.
Singeing Apparatus (Arnold & Sons' improved), with ball and socket joint, which prevents the possibility of tube twisting, and two burners, without tubing, Fig. 957	0	10	6
Ditto ditto ditto with 10 feet superior elastic web tubing, complete, Fig. 957	0	17	6

Trusses, &c., for Thoropin, Bog Spavin, Umbilical Hernia, &c.

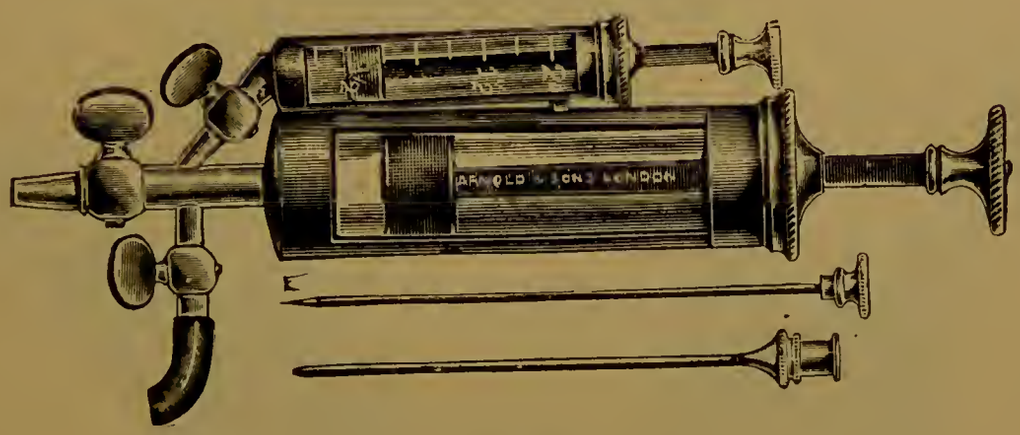


Fig. 958.

Aspirator and Injector (Dean's) (Registered), for removal of Bog Spavin, with trocar and cannula, spare pistons, washers, etc., in leather case, complete, Fig. 958	2	10	0
2 1-oz. Bottles of injecting fluid for use with above	0	2	0

Extract from "THE VETERINARY RECORD."

Messrs. ARNOLD & SONS, London, have just completed a new "Aspirator and Injector" at my design, and as used by me in operating for the removal of "Bog Spavin" and distention of any joint with excess of "Synovia."

I have had great success with this operation all over Scotland, where "Bog Spavin" is very prevalent. The description of the operation is as follows :—

First, charge the small syringe with the liquid you intend to inject into the hock, then withdraw the fluid from the hock by puncturing the joint with a Trocar and Cannula, and fitting the nozzle of aspirator into cannula and ejecting out at side of syringe through an indiarubber tube into a dish containing water, so that no air gets back into syringe, after sucking all the fluid out then close the side tap and inject fluid into joint.

Where this instrument is advantageous over any other, in my opinion, is in the fact that the whole operation is performed without the admission of any air, practically speaking.

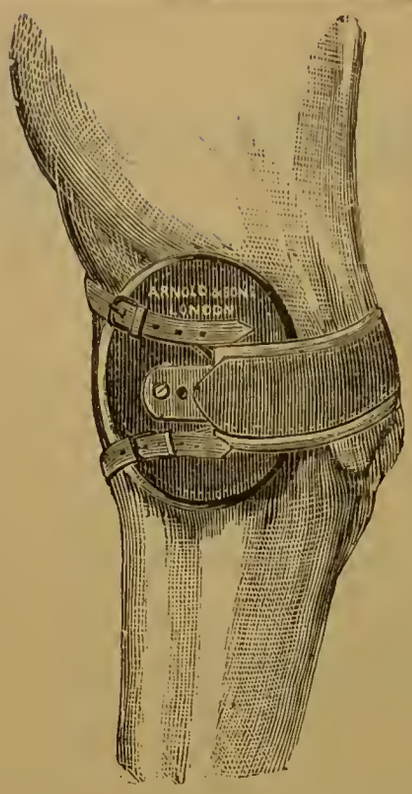


Fig. 959.

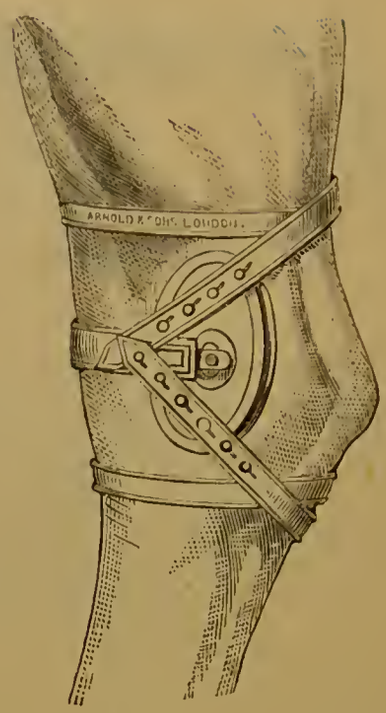


Fig. 960.

	£	s.	d.
Thoropin Truss, plain pattern	0	15	0
Ditto superior, with adjustable spring to regulate size, Fig. 959	0	17	6
Ditto (Arnold & Sons' improved), pads and straps covered with felt, Fig. 960...	0	17	6

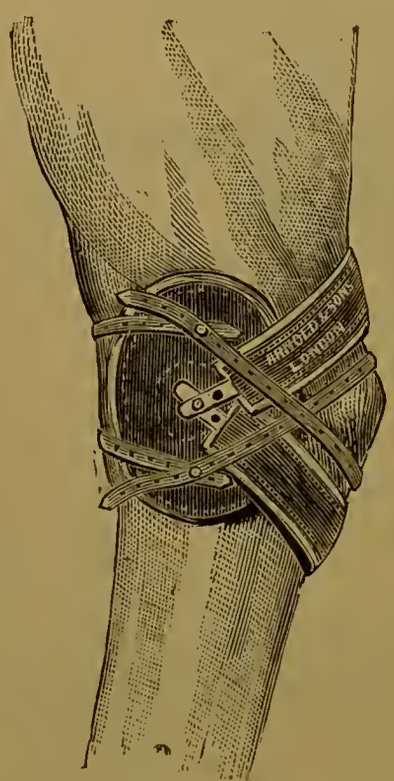


Fig. 961.

Fig. 962.

Thoropin Truss (Wilson's) with double springs and extra large pads, Fig. 961	1	2	6
Thoropin Bandage, cotton elastic, to lace, with two pads	1	2	6
Ditto and Bog Spavin combined with three pads, Fig. 962 ...	1	5	0

Measurements required for Fig. 962:—Circumference above, round, and below the Hock, length from Hock, upwards and downwards.

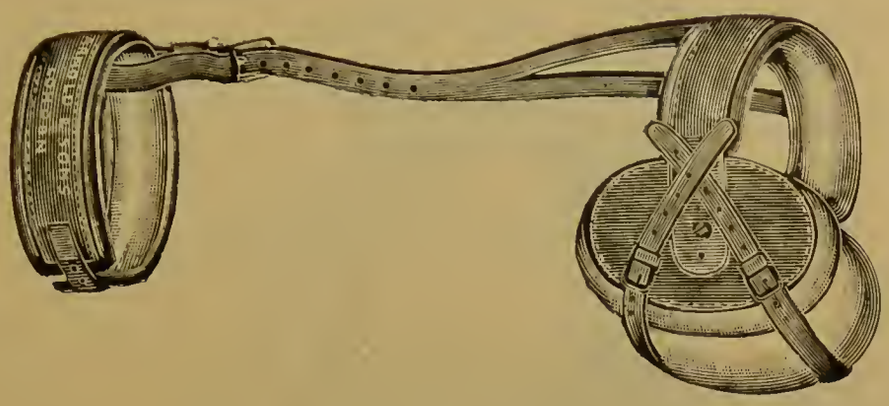


Fig. 963.

	£	s.	d.
Bog Spavin Truss (Gowing's), Fig. 963	1	5	0

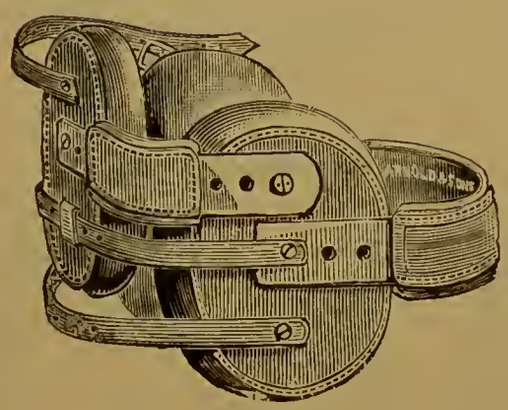


Fig. 964.

Thoropin and Bog Spavin Truss combined, plain pattern	1	0	0
Ditto ditto ditto ditto superior, with adjustable springs to regulate size, Fig. 964	1	2	6

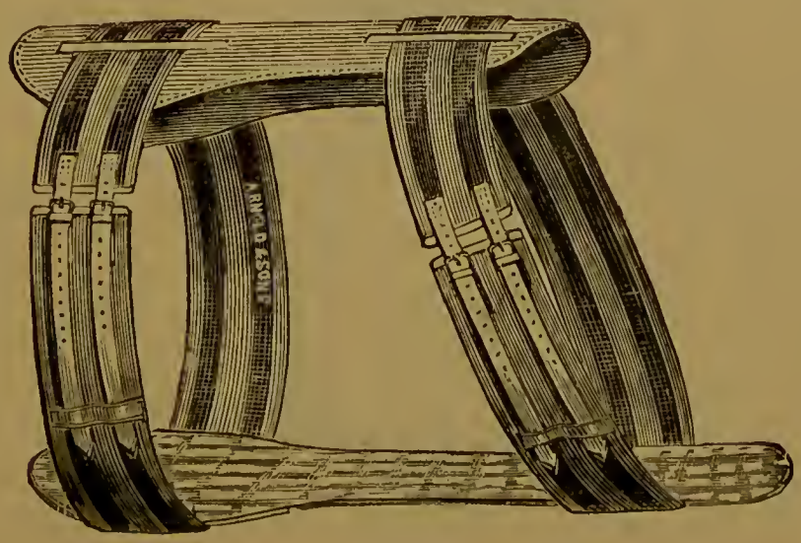


Fig. 965.

Umbilical Hernia Apparatus, plain pattern, Fig. 965	1	10	0

Fig. 966.

	£	s.	d.
Umbilical Hernia Apparatus (Arnold & Sons' improved), Fig. 966	2	10	0

Fig. 967.

Stallion Suspender, india-rubber, with leather straps, Fig. 967 ...	1	1	0

Crib Biters, Wind Suckers, and Neck Cradles.

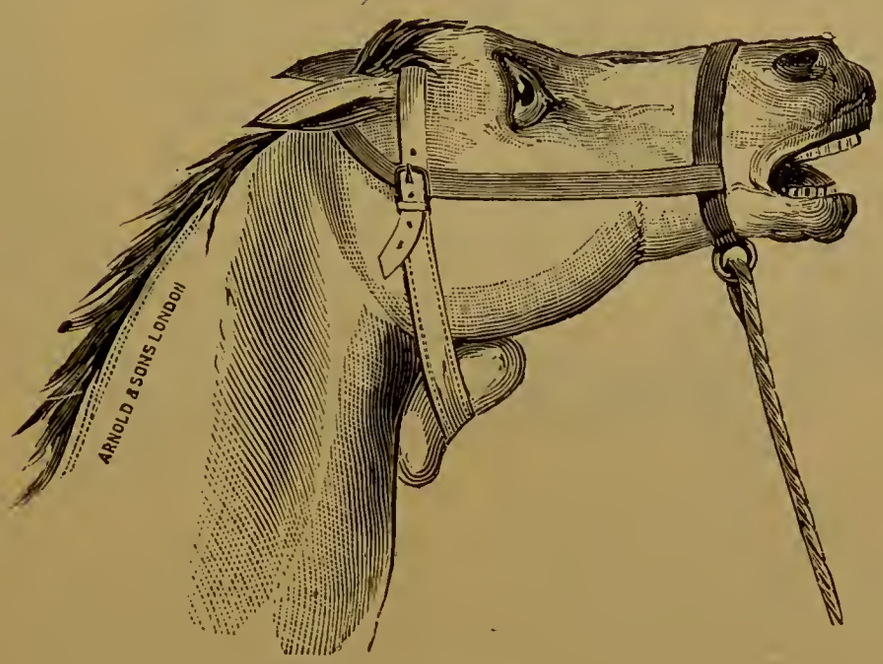


Fig. 968.

	£	s.	d.
Anti-Crib Biter (Blackman's), Fig. 968	0	12	6

Fig. 969.

Anti-Crib Biter, gutta-percha, Fig. 969	1	1	0

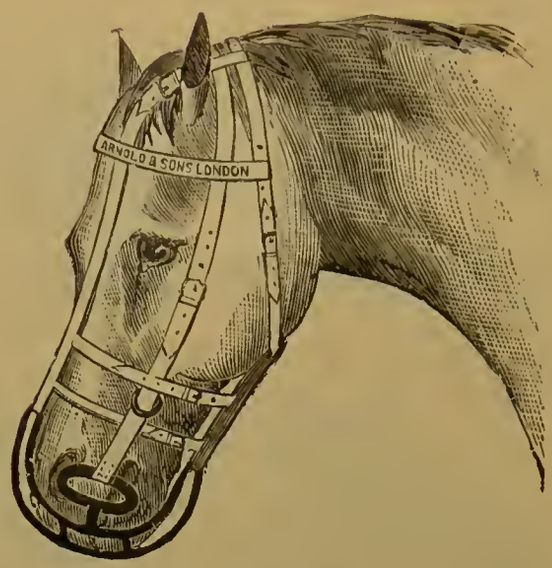


Fig. 970.

	£	s.	d.
Anti-Crib Biting Muzzle (Arnold & Sons' improved), Fig. 970 ...	1	7	6

Fig. 971.

Wind-Sucking Bit (Mills'), Fig. 971	0	7	6

Extract from "THE VETERINARY JOURNAL."

This bit has been made with the view of preventing wind-sucking in horses. It can be worn while the horse is at rest in the stable, or in the form of a bit while at work.

Even if a horse can indulge in the habit of wind-sucking while the bit is in his mouth, which is doubtful, the air he sucks, instead of finding its way to the stomach, passes out of each side.

I have tried it for some months on several comfirmed wind-suckers, and, without exception, all have improved in condition while they had it on.

The bit can be procured from Messrs. ARNOLD & SONS, London.

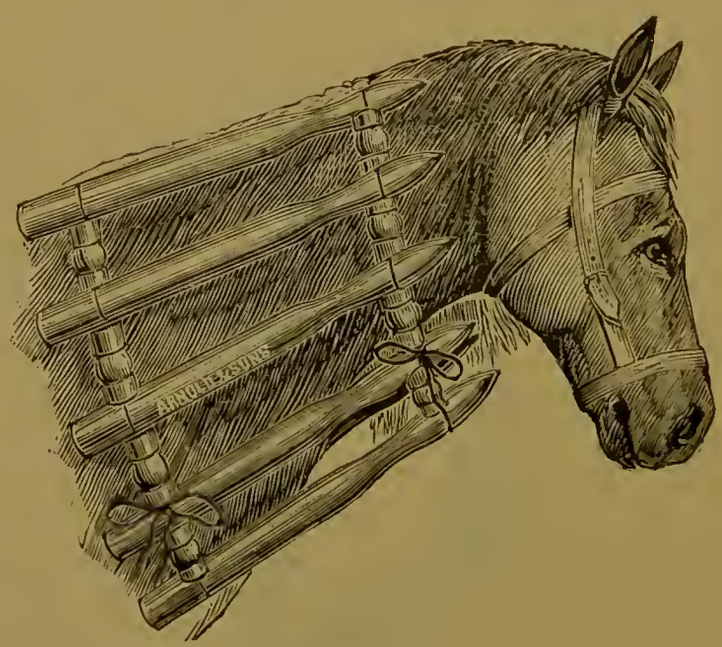


Fig. 972.

Neck Cradle, with ropes, Fig. 972	0	3	6
Ditto with leather straps	0	9	6
Ditto Bamboo, very light and strong	0	6	6

Poultice and Water Boots, Fomenting Apparatus, Bandages, Pads, &c.

Fig. 973.

Fig. 974.

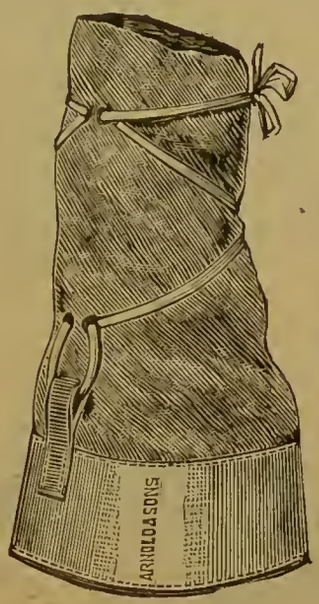


Fig. 975.

Fig. 976.

	£	s.	d.
Poultice Boot, with leather and stout canvas leg piece, Fig. 973 ...	0	12	6
Ditto ditto ditto superior, with steel frame, Fig. 974	0	18	6
Water ditto with felt leg-piece, Fig. 975	0	13	6
Ditto ditto ditto superior, with steel frame, Fig. 976	0	19	6

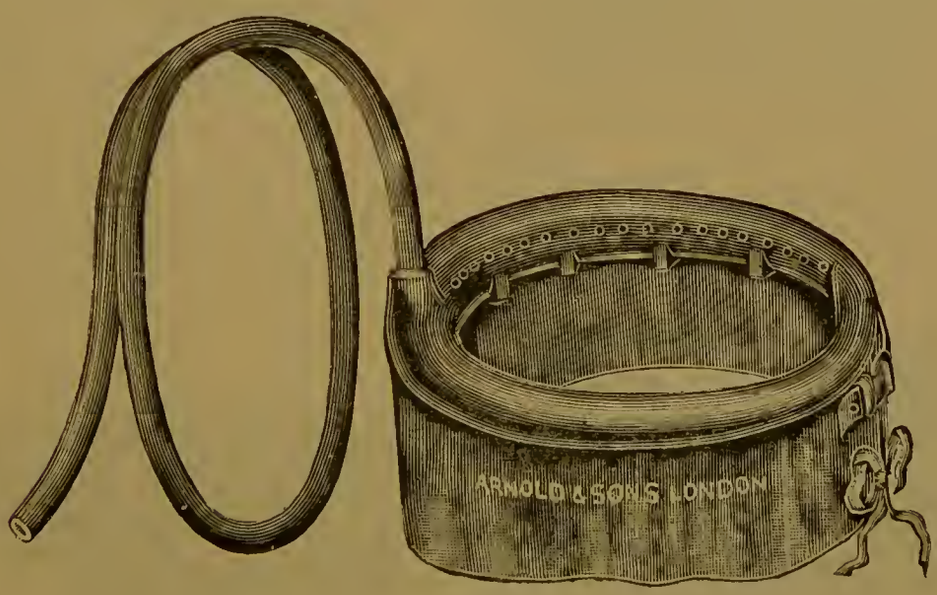


Fig. 977.

Fomenting Apparatus, india-rubber for legs of horses, producing numerous and constant streams or jets of cold water (or hot for fomentation), supplies itself upon the syphon principle from a pail, manger, or tap of a cistern; it is fastened to the limb by means of a strap and buckle, Fig. 977	0	15	0
Ditto ditto with regulating tap	0	18	0
Ditto ditto ditto ditto and reservoir complete ...	1	7	6

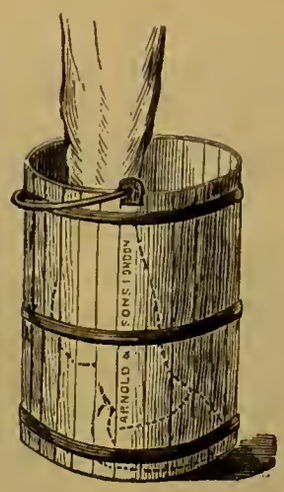


Fig. 978.

	£	s.	d.
Fomenting Pail (Fearnley's), Fig. 978	0	12	6

Fig. 979.

Fig. 980.

Horse Knee Caps, India rubber in three sizes, Fig. 979, per pair No. 1, 12s.; No. 2, 13s. 6d.; No. 3,	0	16	6
Fetlock Boot, shaped pad, India rubber, in three sizes, Fig. 980, per pair, No. 1, 8s.; No. 2, 9s.; No. 3,	0	10	6

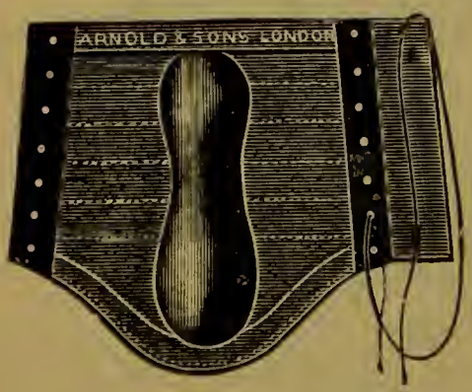


Fig. 981

Fig. 982

Fetlock and Leg Boot, India rubber, in three sizes, Fig. 981, per pair, No. 1, 10s. 6d.; No. 2, 12s.; No. 3,	0	13	6
Fetlock Boot to lace, India rubber, in three sizes, Fig. 982, per pair, No. 1, 12s. 6d.; No. 2, 13s.; No. 3,	0	13	6

Fig. 983.

Fig. 984.

	£	s.	d.
Fetlock Boot, with top roll, India rubber, in three sizes, Fig 983, per pair, No. 1, 13s.; No. 2, 14s.; No. 3,	0	15	0
Back Sinew Boot, India rubber in three sizes, Fig. 984, per pair, No. 1, 16s. 6d.: No. 2, 17s. 6d.; No. 3,	0	18	6

Fig. 98

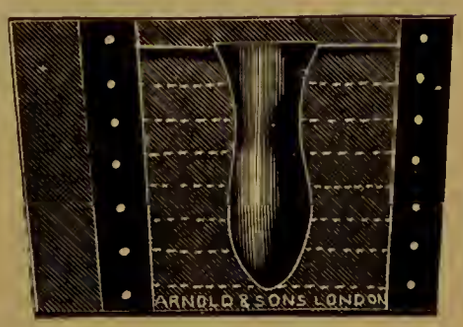


Fig. 986.

Race Legging, perforated, India rubber, in three sizes, Fig. 985, No. 1, 13s. 6d.; No. 2, 14s. 6d.; No. 3,	0	15	6
Splint boot, India rubber, in three sizes, Fig. 986, No. 1, 15s. 6d.; No. 2, 16s.; No. 3,	0	17	0

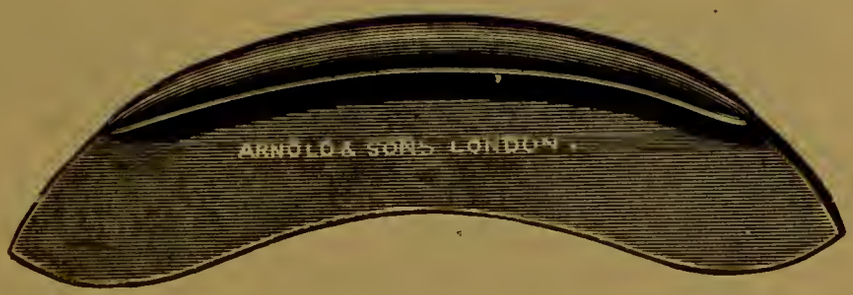


Fig. 987.

Speedy Cutting Pad (Lacombe's) india-rubber, assorted sizes, Fig. 987 ... ... each	0	0	9
Ditto ditto ditto ditto ... ... per doz.	0	7	6

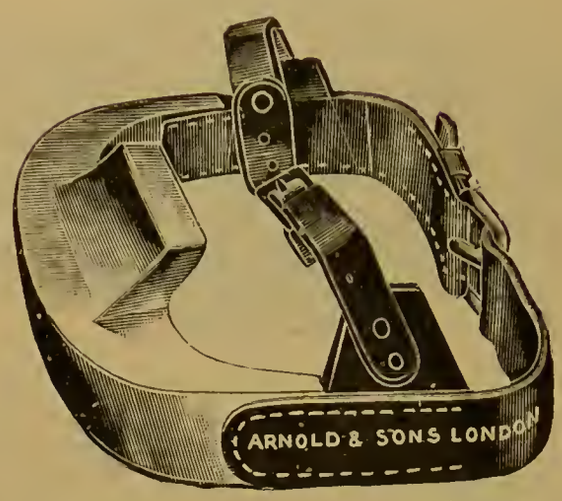


Fig. 988.

	£	s.	d.
Pad for Prevention and Cure of Capped Elbow (Heath's) (Patented), Fig. 988. Five sizes, each, No. 1, 7s. 6d.; No. 2 & 3, 8s. 6d.; No. 4, 9s. 6d.; No. 5	0	10	6

Extract from "THE VETERINARIAN."

The annexed is an illustration of a new india-rubber pad, invented and patented by Mr. Heath, and it is, in my opinion, the best of the kind ever used for the prevention, as well as the cure, of a very troublesome affection, viz., "Capped Elbow."

I have had some considerable experience of its use, and in every case where I have recommended it the results have been most satisfactory. Its application is of the simplest, only requiring to be buckled on the foot, being kept in position by another strap, which passes under the shoe. The pad is at once the simplest and most valuable of its kind that has yet been introduced to the profession.

Messrs. ARNOLD & SONS, of West Smithfield, London, have been appointed the sole agents for the sale of these pads.

J. McKENNA. F.R,C.V.S.

COPIES OF LETTERS RECEIVED.

I am very pleased indeed with your patent rubber protection for "Capped Elbow," I have found it of invaluable service in the cure of the disease, and always recommend it in treatment of same.

FRANK HALLILAY, M.R.C.V.S.

Having used Mr. Heath's Patent Elbow Pad for a considerable time, I can testify to their usefulness and efficiency. They are simple in construction, durable, and easily applied.

HENRY COOPER, M.R.C.V.S.

Fig. 989.

Fig. 990.

Horse Bandages, linen, best quality, 5 ins. wide, 7½ ft. long, with tapes, Fig. 989 ... ...per set of four	0	3	6
Ditto ditto best quality, blue, grey, or fawn, 5 ins. wide, 7½ ft. long, with tapes, Fig. 990... ... ...per set of four	0	3	6

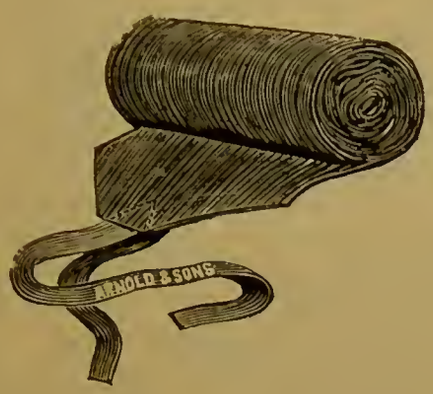


Fig. 991.

Fig. 992.

		£	s.	d.
Horse Bandages (Newmarket), white, Fig. 991 ... per set of four		0	3	3
Ditto ditto ditto blue, grey or fawn ditto		0	3	9
Ditto ditto India-rubber, for Hock, Fig. 992 each		0	4	9
Ditto ditto Plaster, $2\frac{1}{4}$ ins. wide, for weak and broken-down tendons, &c. ... ... per doz.		0	8	0

Calico Bandages, per doz.—

UNBLEACHED.	3 yds.	4 yds.	6 yds.	BLEACHED.	3 yds.	4 yds.	6 yds.
3 in.	2/4	3/-	5/-	3 in.	2/9	4/-	5/6
4 in.	3/-	4/-	6/-	4 in.	3/6	4/6	7/-
6 in.	4/6	6/-	8/6	6 in.	5/-	7/-	10/-

Open Wove Bandages, 6 yds. long, per doz.—

UNBLEACHED.	2 in.	$2\frac{1}{2}$ in.	3 in.	BLEACHED.	2 in.	$2\frac{1}{2}$ in.	3 in.
	1/6	1/9	2/-		2/-	2/6	3/-

Flannel Bandages, 6 yds. long, per doz., 3 in., 13s.; 4 in., 18s.; 6 in.,					1	4	0
Linen Ditto ditto ditto $2\frac{1}{2}$ in., 12s.; 3 in.,					0	15	0
Domette Ditto ditto ditto 3 in., 7s. 6d.; 4 in.,					0	11	0
Muslin Ditto ditto (Sayre's), per doz., 3 in., 4s.; 4 in.,					0	5	6
Ditto Ditto ditto ditto 3 in., prepared with Plaster of Paris, ready for use, in tin cases ... ... per doz.					0	8	0
Plaster of Paris, in tin case ... ... 7 lbs., 2s., 14 lbs.,					0	3	0

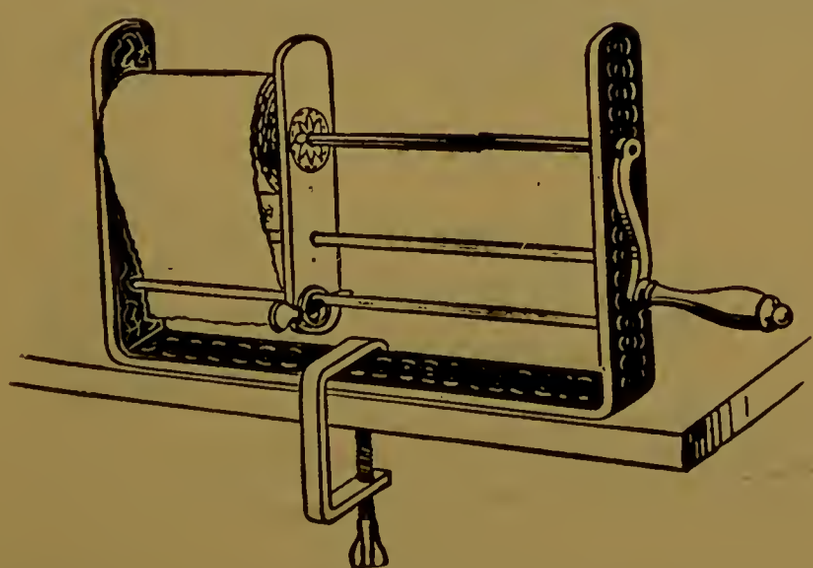


Fig. 993.

Bandage Winder, adjustable, iron, japanned, Fig. 993	0	6	6

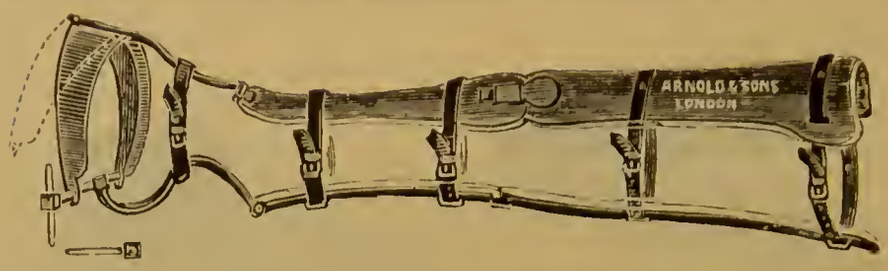


Fig. 994.

	£	s.	d.
Leg Splint (Cooke's), adjustable, for horses and cattle, Fig. 994 ...	5	5	0

Extract from "THE VETERINARIAN."

Messrs. ARNOLD & SONS, of West Smithfield, have made for me a splint which will be found useful in all cases where the limb is required to be kept in a fixed position. It will assist in bringing about a favourable termination in cases of ruptured tendons, fractures, dislocations, and open joints. After the operation of tenotomy it will be worth a trial, as by this means a rupture of the sesamoideal ligament—which is often diseased—may be avoided. The shoe will fit most sized feet, and may be easily fixed without nails; the toe works on a pivot, and the heel may be adjusted to suit the foot by means of different sized screws. The heel can be raised from the ground if required by means of screw frost cogs (not shown in the drawing); the hinge-joints at the fetlock are rendered fixed by a thumb-screw; the splint by this means can be fitted to the limb at a suitable angle. At the knee, both in front and behind, there are projecting pieces of the upper splint which fit into openings on the lower splint. If it is not necessary that the limb should be fixed above the knee, the upper parts can be removed. It may be suitably applied to the limbs of cattle, or below the hock of the hind limb.

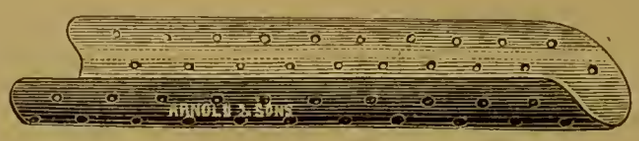


Fig. 995.

Dog Splints, metallic, six assorted sizes, Fig. 995 ... ... per set	0	6	0

Extract from "THE VETERINARY JOURNAL."

These splints are cool, light and strong, made of copper, nickel-plated, so as to prevent oxidation. They can be bent to suit any limb. A slight roughness is left on the outside of the splints, by perforations, to prevent the bandage from slipping. They are invaluable when the parts are lacerated, as the perforations allow ventilation, and secretions are not confined and liable to be absorbed, but pass off through the numerous holes. They are made in six sizes, by Messrs. ARNOLD & SONS, London.

Fig. 996.

Dog Splints, wood, lined, Fig. 996 ... ... per set of eight pairs	0	3	0

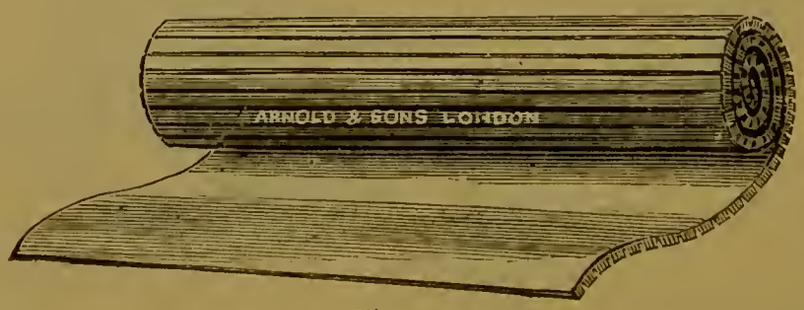


Fig. 997.

Splinting (Gooch's), 18 ins. by 22 ins. Fig. 997 ... per piece	0	5	0
Poroplastic Sheets for Splints ... ... per lb.	0	4	6

Weighing Machines, Scales, Weights, &c.

(REGISTERED.)

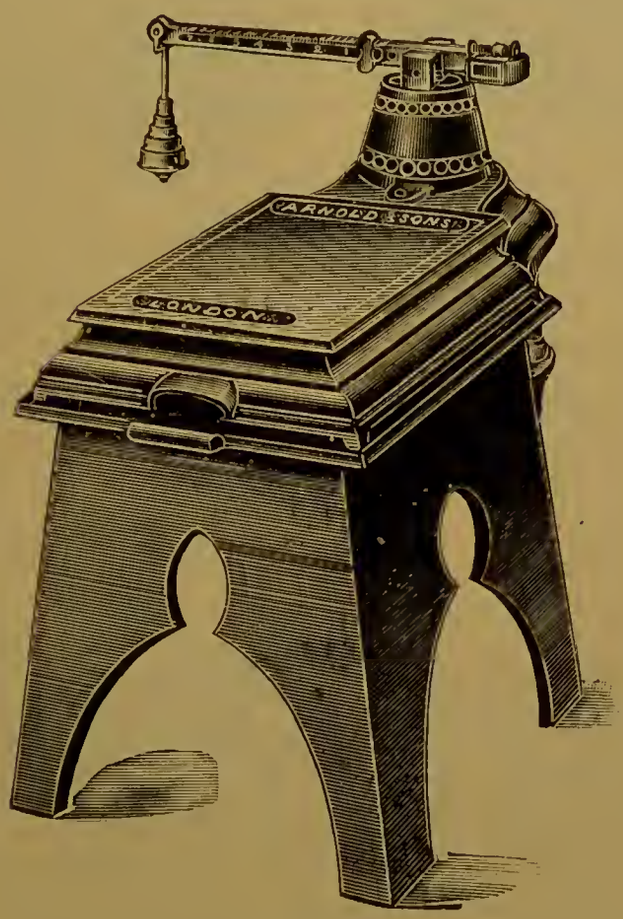


Fig. 998.

	£	s.	d.
Weighing Machine, "Reliance," weighs from 1 oz. to 24 stone, Fig. 998	1	5	0
Stained Wood Stand for ditto	0	12	6

The illustration shows a new form of weighing machine made by Messrs. ARNOLD & SONS, London. The machine is so constructed that by a simple arrangement of a regulating nut any person can adjust the balance to the greatest nicety. All machines are liable, through wear or otherwise, to get out of order, and this necessitates sending them to the maker for adjustment, but the manufacturers believe that much trouble and expense will be obviated by the simple nut arrangement introduced into the new machine, The machines can be supplied with or without the stand. They are simple in design, cheap and reliable, and will consequently be found useful adjuncts to the consulting room. They also have the advantage of occupying very little space, and so can be put away under a chair or cupboard when not required.

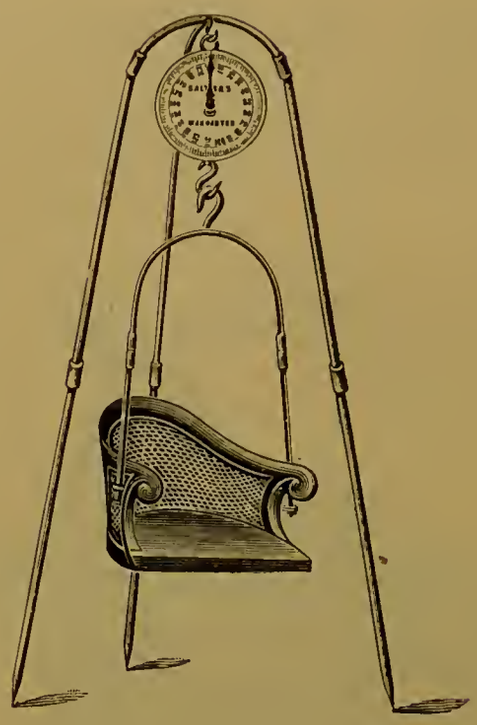


Fig. 999.

	£	s.	d.
Jockey Balance, with double index, one figured by 10 lbs. and upwards and the other by stones, with mahogany chair, cane backed and stuffed seat, covered with horsehair. To weigh 20 stones by 1 lb. 14 in. dial	6	10	0
Ditto ditto with iron triangle, complete, Fig. 999 ...	8	0	0
Ditto ditto with twisted brass mounted chair and velvet covered stuffed seat	7	10	0
Ditto ditto with iron triangle, complete	9	0	0

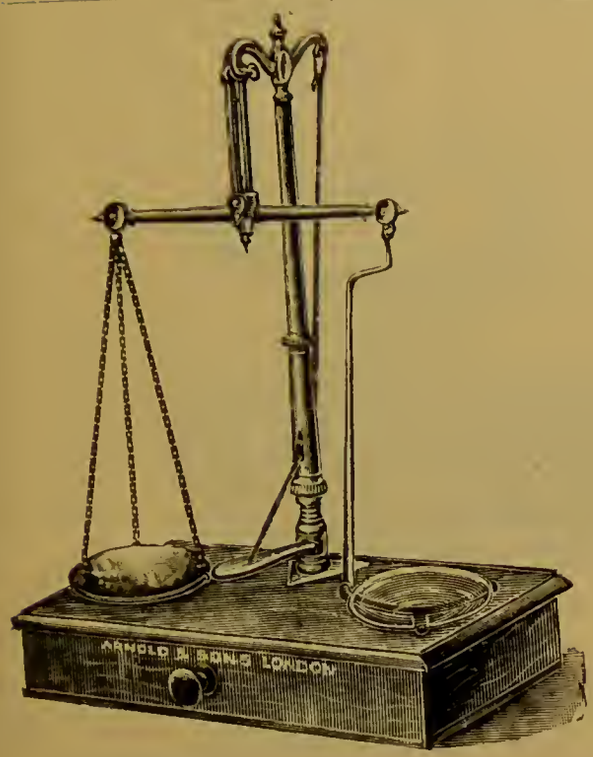


Fig. 1000.

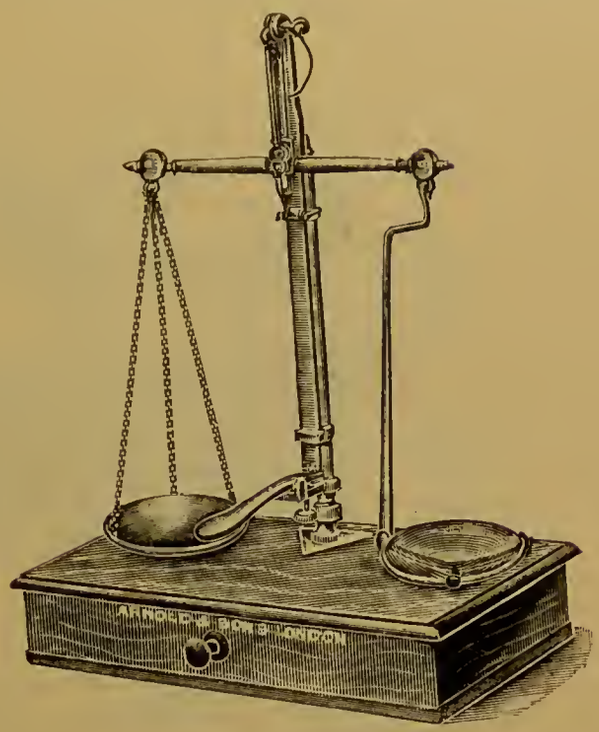


Fig. 1001.

	£	s.	d.
Scales and Weights, Dispensing, with brass lever pillar, oval box end beam, brass folding arm, with two glass pans, on mahogany box with drawer, Fig. 1000	1	3	0
Ditto ditto brass pillar with gun-metal slide, oval box end beam, brass weight scale with chains, brass folding arm, with two glass pans, on mahogany box with drawer, Fig. 1001 ...	1	7	0
Ditto ditto grain, in oak box	0	4	0
Ditto ditto ditto, with brass beams, pans, chains and weights, 4 oz. down, in oak box	0	12	6

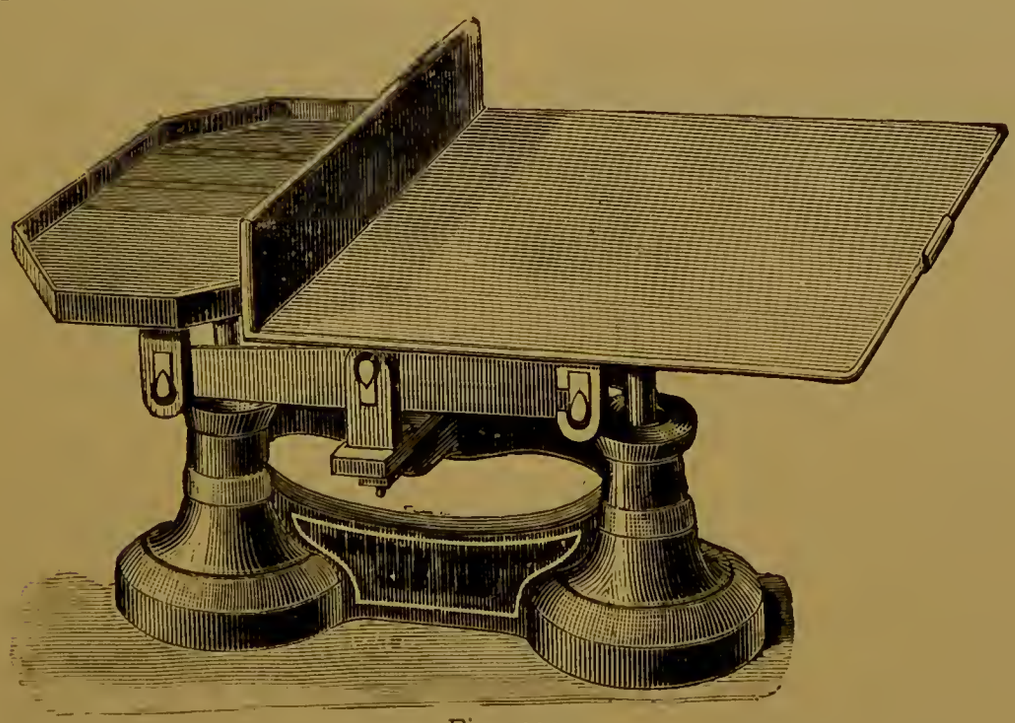


Fig. 1002.

Scales, Japanned, with gilt iron, and copper scales, Fig. 1002, 4 lb. size								0	18	6
Ditto	ditto	ditto	7 lb. do.	...	...	...	...	1	1	0
Ditto	ditto	ditto	14 lb. do.	...	...	...	...	1	5	0

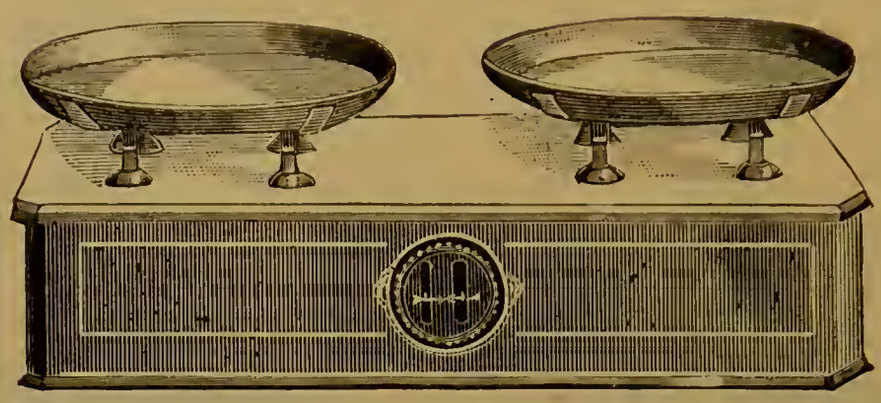


Fig. 1003.

		£	s.	d.
Scales (French counter), on walnut stand, with marble top, Fig. 1003	2 lb. size	1	1	0
Ditto ditto ditto	4 lb. do.	1	5	0
Weights, Brass, for 2 lb. size	$\frac{1}{4}$ oz. to 2 lb.	0	8	6
Ditto ditto 4 lb. do.	$\frac{1}{4}$ oz. to 4 lb.	0	12	6
Ditto Drachm, stamped	... per set	0	1	6
Ditto ditto unstamped...	... do.	0	0	6
Ditto Grain, stamped	... do.	0	1	6
Ditto ditto unstamped...	... do.	0	0	2
Ditto Iron japanned	$\frac{1}{4}$ lb. each	0	0	7
Ditto ditto	$\frac{1}{2}$ lb. do.	0	0	8
Ditto ditto	1 lb. do.	0	0	10
Ditto ditto	2 lb. do.	0	1	3
Ditto ditto	4 lb. do.	0	2	0
Ditto ditto	7 lb. do.	0	2	6
Ditto ditto	14 lb. do.	0	3	3

Microscopes and Apparatus.

Fig. 1004.

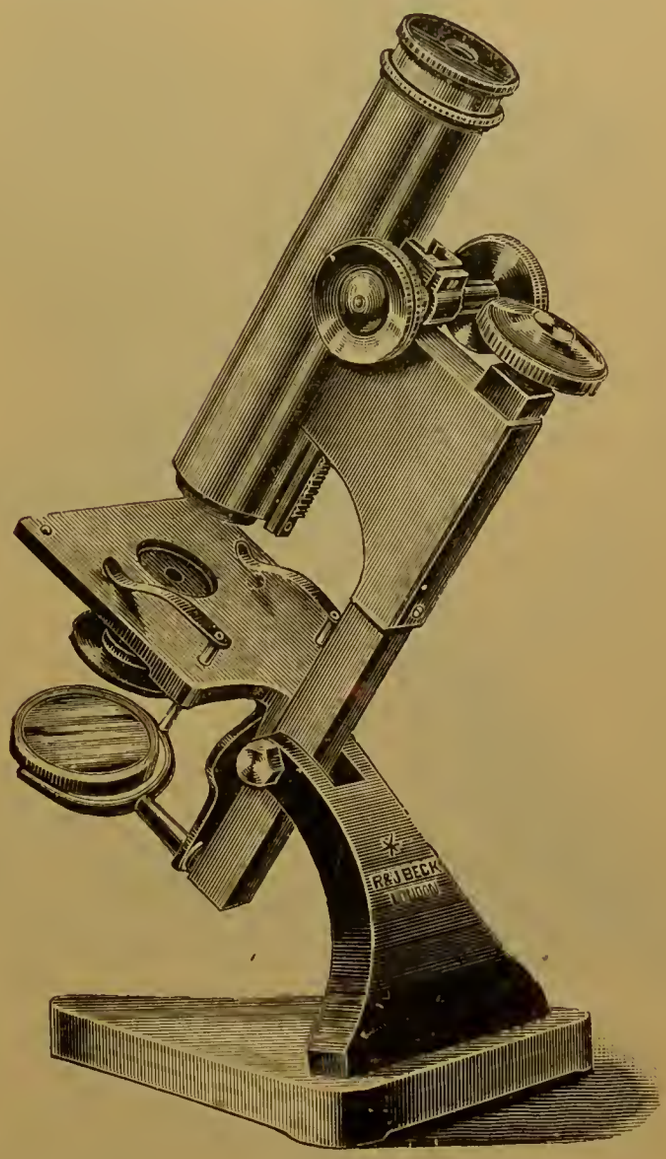


Fig. 1005.

	£	s.	d.	£	s.	d.
The "Star" Microscope (Beck's), stand as above, in case, Fig. 1004	1	8	0			
No. 364. 1 Eyepiece, No. I...	0	5	0			
No. 801. 1 inch (22 mm.) Object Glass	0	12	0			
No. 803. ¼ inch (6 mm.) ditto	1	1	0			
Magnifying power from 38·5 to 183.				3	6	0
Ditto ditto ditto	1	8	0			
No. 364. 1 Eyepiece, No. I.	0	5	0			
No. 802. ⅔ inch (14 mm.) Object Glass	0	12	0			
No. 804. ⅙ inch (4 mm.) ditto	1	10	0			
Magnifying power from 54 to 270.				3	15	0
The "Star" Microscope (Beck's), stand as above, in cloth, covered wooden case, Fig. 1005	2	3	0			
No. 364. 2 Eyepieces, Nos. I. and II.	0	10	0			
No. 801. 1 inch (22 mm.) Object Glass	0	12	0			
No. 803. ¼ inch (6 mm.) ditto	1	1	0			
Magnifying power from 38·5 to 270.				4	6	0
Ditto ditto ditto	2	3	0			
No. 364. 2 Eyepieces, Nos. I. and II.	0	10	0			
No. 802. ⅔ inch (14 mm.) Object Glass	0	12	0			
No. 804. ⅙ inch (4 mm.) ditto	1	10	0			
Magnifying power from 54 to 400.				4	15	0

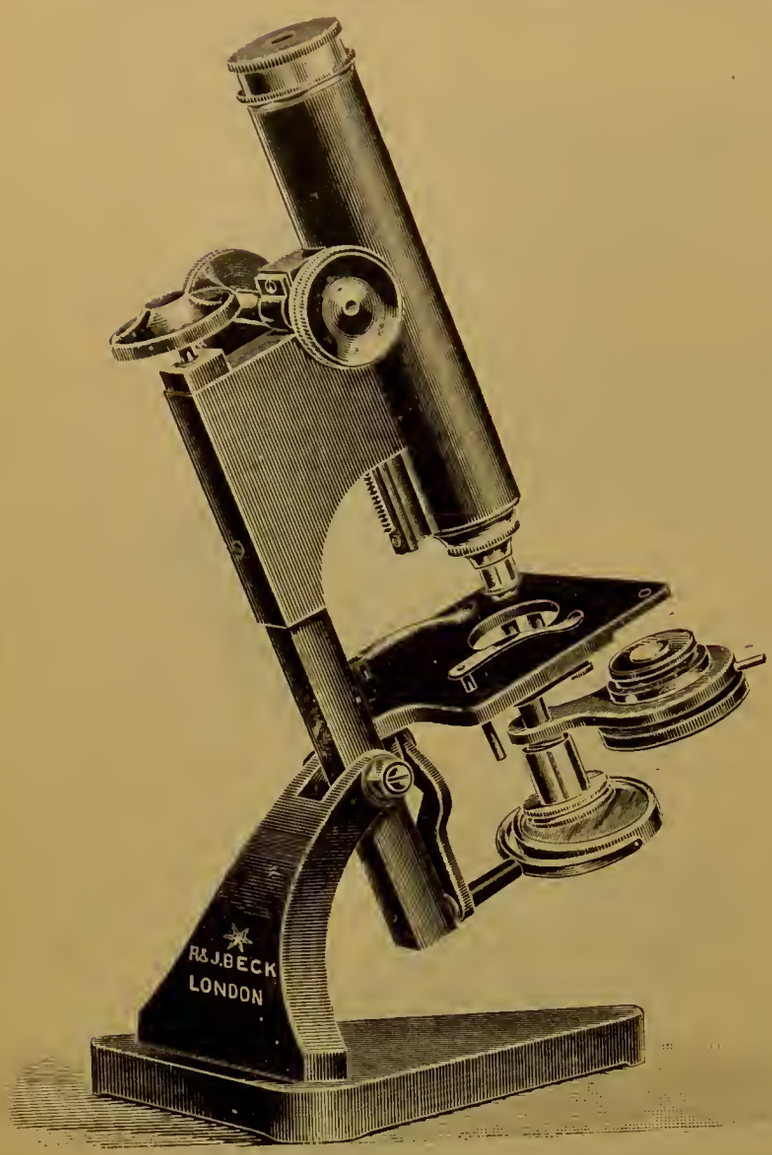


Fig. 1006.

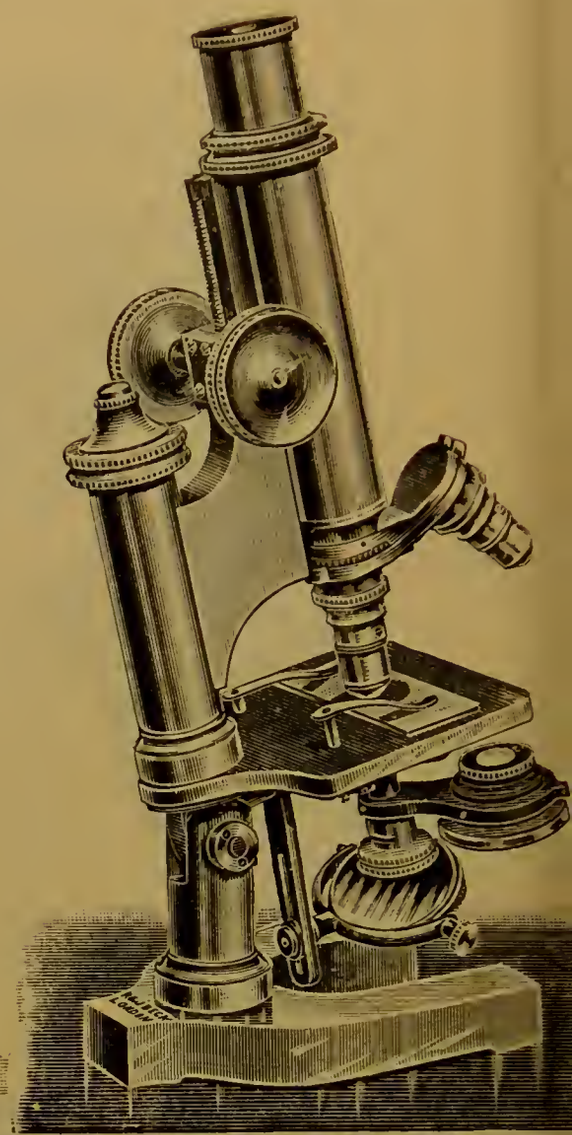


Fig. 1007.

	£	s.	d.	£	s.	d.
Bacteriological "Star" Microscope (Beck's), stand as above, in walnut case,						
Fig. 1006	3	5	6			
No. 364. 2 Eyepieces, Nos. I. and II.	0	10	0			
No. 802. $\frac{2}{3}$ inch (14 mm.) Object Glass	0	12	0			
No. 804. $\frac{1}{6}$ inch (4 mm.) ditto	1	10	0			
No. 912. Abbé Condenser, with Iris Diaphragm	0	15	0			
Magnifying power from 54 to 400.				6	12	6
Ditto ditto ditto	3	5	6			
No. 364. 2 Eyepieces, Nos. I. and II.	0	10	0			
No. 802. $\frac{2}{3}$ inch (14 mm.) Object Glass	0	12	0			
No. 804. $\frac{1}{6}$ inch (4 mm.) ditto	1	10	0			
No. 810. $\frac{1}{12}$ (2 mm.) Oil Immersion ditto	4	0	0			
No. 912. Abbé Condenser, with Iris Diaphragm	0	15	0			
No. 192.* Triple Nosepiece	1	4	0			
Magnifying power from 54 to 880.				11	16	6
Continental Model Microscope (Beck's), stand in case, in mahogany case,						
Fig. 1007	5	8	0			
No. 364. 2 Eyepieces, Nos. I. and II.	0	10	0			
No. 912. Abbé Condenser, with Iris Diaphragm	0	15	0			
No. 802. $\frac{2}{3}$ inch (14 mm.) Object Glass	0	12	0			
No. 804. $\frac{1}{6}$ inch (4 mm.) ditto	1	10	0			
Magnifying power from 54 to 400.				8	15	0
Ditto ditto ditto	5	8	0			
No. 364. 2 Eyepieces, Nos. I. and II.	0	10	0			
No. 912. Abbé Condenser, with Iris Diaphragm	0	15	0			
No. 801. 1 inch (22 mm.) Object Glass	0	12	0			
No. 803. $\frac{1}{4}$ inch (6 mm.) ditto	1	1	0			
No. 810. $\frac{1}{12}$ inch (2 mm.) Oil Immersion ditto	4	0	0			
Magnifying power from 38·5 to 880.				12	6	0

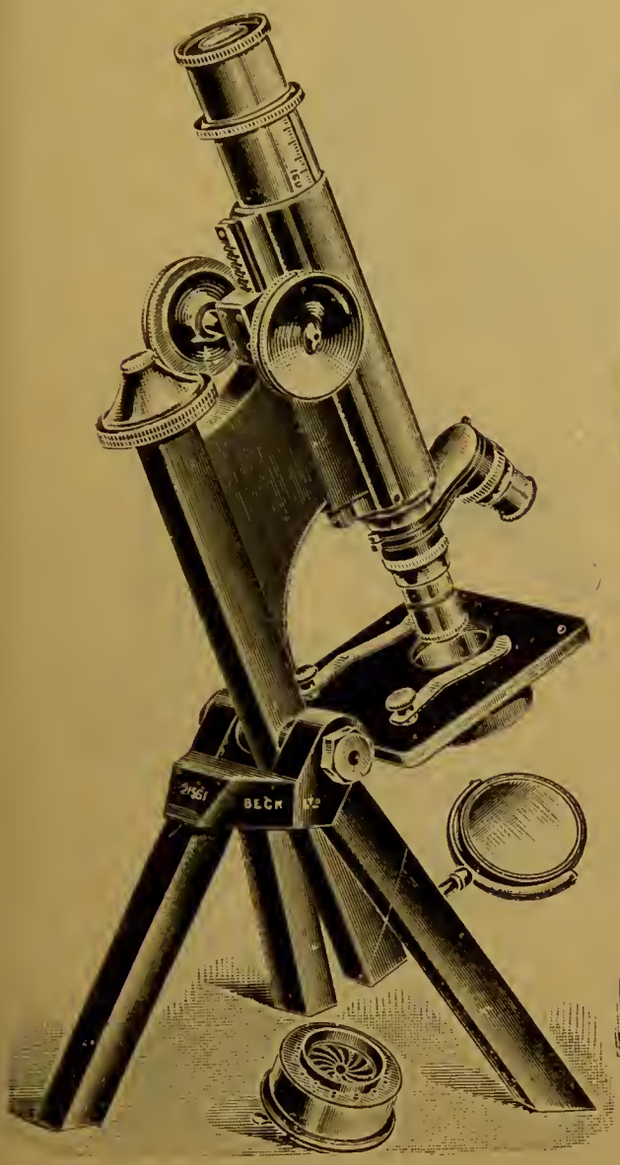


Fig. 1008.

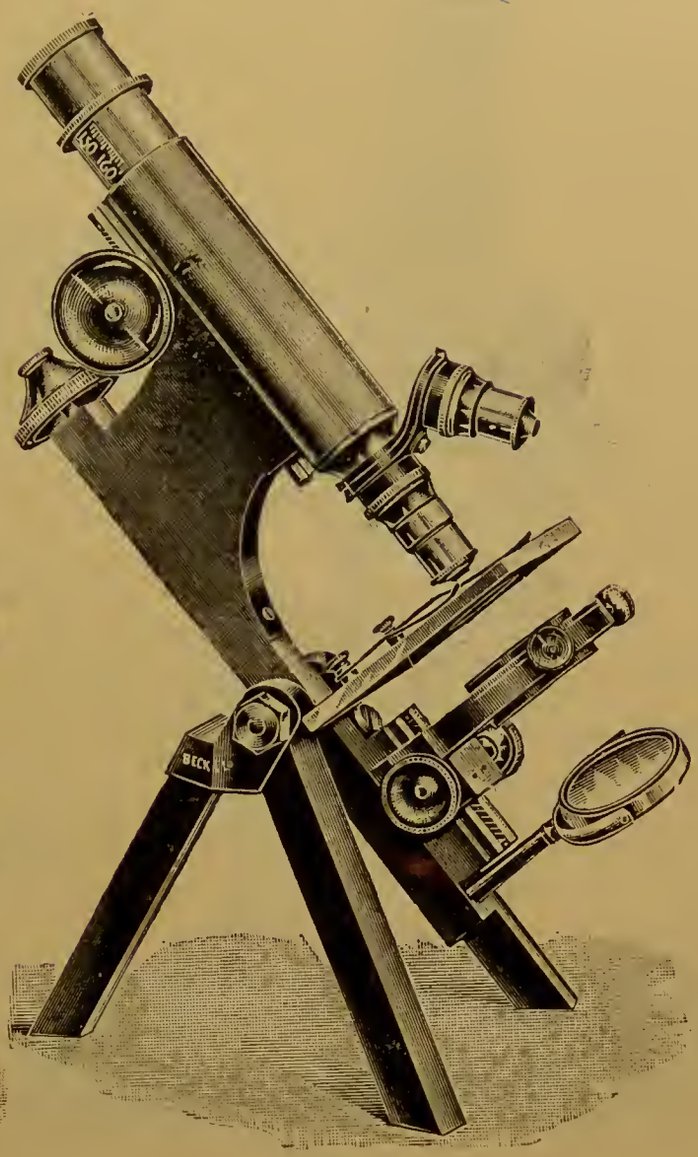


Fig. 1009.

	£	s.	d.	£	s.	d.
British Student's Microscope (Beck's), stand as above, in mahogany case, Fig. 1008	3	12	6			
No. 364. 1 Eyepiece	0	5	0			
No. 802. $\frac{2}{3}$ inch (14 mm.) Object Glass	0	12	0			
No. 804. $\frac{1}{6}$ inch (4 mm.) ditto	1	10	0			
Double Nosepiece, if purchased with instrument, 9s. extra.				5	19	6
Ditto ditto ditto	3	12	6			
No. 364. 2 Eyepieces	0	10	0			
No. 802. $\frac{2}{3}$ inch (14 mm.) Object Glass	0	12	0			
No. 804. $\frac{1}{6}$ inch (4 mm.) ditto	1	10	0			
No. 810. $\frac{1}{12}$ inch (2 mm.) ditto	4	0	0			
No. 912A. Abbé form of Condenser	0	10	0			
No. 192.* Triple Nosepiece	1	4	0			
				11	18	6
British Student's Microscope (Beck's), stand as above, in mahogany case, Fig. 1009	5	12	6			
No. 364. 2 Eyepieces, Nos. I. and II.	0	10	0			
No. 802. $\frac{2}{3}$ inch (14 mm.) Object Glass	0	12	0			
No. 804. $\frac{1}{6}$ inch (4 mm.) ditto	1	10	0			
Double Nosepiece, supplied with instrument, 9s. extra.				8	4	6
Ditto ditto ditto	5	12	6			
No. 364. 2 Eyepieces, Nos. I. and II.	0	10	0			
No. 802. $\frac{2}{3}$ inch (14 mm.) Object Glass	0	12	0			
No. 804. $\frac{1}{6}$ inch (4 mm.) ditto	1	10	0			
No. 810. $\frac{1}{12}$ inch (2 mm.) Oil Immersion Object Glass	4	0	0			
No. 911A Abbé Condenser	1	15	0			
No. 192.* Triple Nosepiece	1	4	0			
				15	3	6

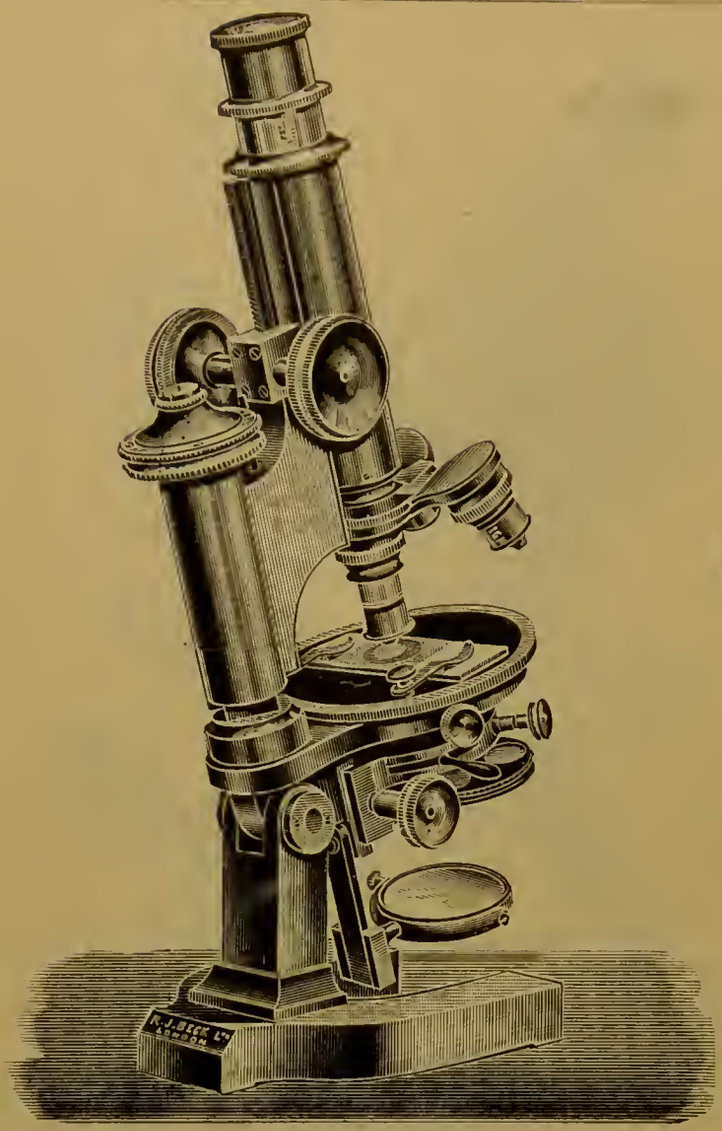


Fig. 1010.

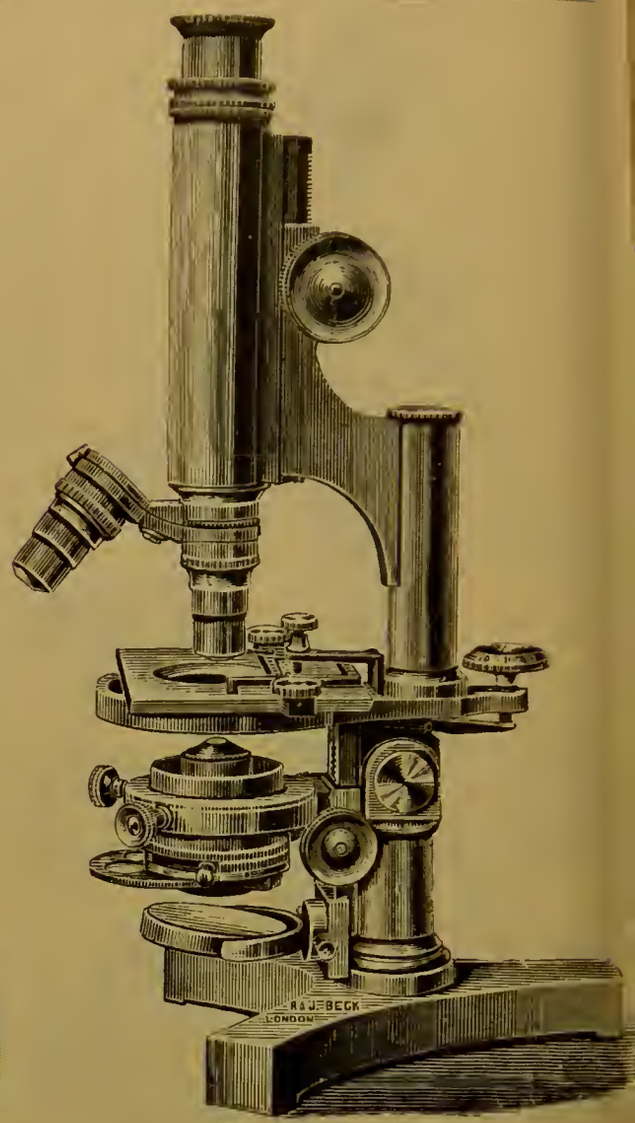


Fig. 1011.

	£	s.	d.	£	s.	d.
Large Continental Model Microscope (Beck's), stand as above, in mahogany case, Fig. 1010	7	15	0			
No. 364. 2 Eyepieces, No. I. and II.	0	10	0			
No. 823. $\frac{2}{3}$ inch (16 mm.) Object Glass	1	5	0			
No. 826. $\frac{1}{6}$ inch (4 mm.) ditto with Correction Collar	2	15	0			
No. 911. Abbé Condenser, with Iris Diaphragm	1	15	0			
Magnifying Power from 54 to 400.				14	0	0
Ditto ditto ditto	7	15	0			
No. 364. 2 Eyepieces, Nos. I. and II.	0	10	0			
No. 822. 1 inch (22 mm.) Object Glass	1	5	0			
No. 825. $\frac{1}{4}$ inch (6 mm.) ditto with Correction Collar	2	0	0			
No. 830. $\frac{1}{12}$ inch (2 mm.) Oil Immersion...	5	10	0			
No. 902. Achromatic Condenser, with Iris Diaphragm	4	0	0			
No. 392.* Double Nosepiece	0	12	6			
Magnifying Power from 38·5 to 880.				21	12	6
"Pathological" Microscope (Beck's), stand as above, in mahogany case, Fig. 1011	8	15	0			
No. 399. 2 Eyepieces, Nos. I. and II.	0	16	0			
No. 802. $\frac{2}{3}$ inch (14 mm.) Object Glass	0	12	0			
No. 804. $\frac{1}{6}$ inch (4 mm.) ditto	1	10	0			
No. 911. Abbé Condenser with Iris Diaphragm	1	15	0			
Magnifying power from 54 to 400.				13	8	0
Ditto ditto ditto	8	15	0			
No. 399. 2 Eyepieces, Nos. I. and II.	0	16	0			
No. 822. 1 inch (22 mm.) Object Glass	1	5	0			
No. 824. $\frac{1}{2}$ inch (12 mm.) ditto	1	10	0			
No. 826. $\frac{1}{6}$ inch (4 mm.) ditto with Correction Collar	2	15	0			
No. 830. $\frac{1}{12}$ inch (2 mm.) Oil Immersion Object Glass	5	10	0			
No. 192.* Triple Nosepiece	1	4	0			
No. 902. Beck's Achromatic Condenser, with Blue Glass and Iris Diaphragm	4	0	0			
Magnifying power from 38·5 to 880.				25	15	0

Fig. 1012.

	£	s.	d.
Frog Plate, Fig. 1012	0	12	6

Fig. 1013.

Microscopic Scissors, straight	0	3	0
Ditto ditto curved, Fig. 1013	0	4	0

Fig. 1014.

Microscopic Forceps, Fig. 1014	0	2	0

Fig. 1015.

Microscopic Scalpel, Fig. 1015	0	2	0

	£	s.	d.
Turn Table	0	6	6
Stand Condenser ... ... 7s. 6d., 12s. 6d., and	0	15	0
Live Box ... ... 4s. 6d. and	0	6	6
Stage Forceps	0	4	6
Ditto Micrometer	0	5	0
Canada Balsam... ... ... per bottle	0	1	0
Marine Glue ... ... ditto	0	1	0
Gold Size ... ... ditto	0	1	0
Glycerine ... ... ditto	0	1	0
Glass Slides, 3 in. by 1 in., unground ... ... per doz.	0	0	4
Ditto ditto ground ... ... ditto	0	0	6
Ditto ditto hollow ... ... each	0	0	6
Thin Glass Squares and Circles, various sizes ... per box, each	0	1	0
Object Box, for two dozen	0	1	6
Ditto six trays, for three dozen	0	2	6
Ditto twelve trays, for six dozen	0	4	6
Section Lifters ... ... 3d., 6d. and	0	1	0
Embedding Box	0	0	6
Box of Labels	0	0	2
Watch Glasses ... ... each	0	0	2
Hollow-ground Razors... ... ... from	0	1	0
Microscopic Needle	0	0	3
Needle Holder, with screw mount for fixing needles...	0	1	6

Aseptic Cabinets, Sterilizers and Requisites.

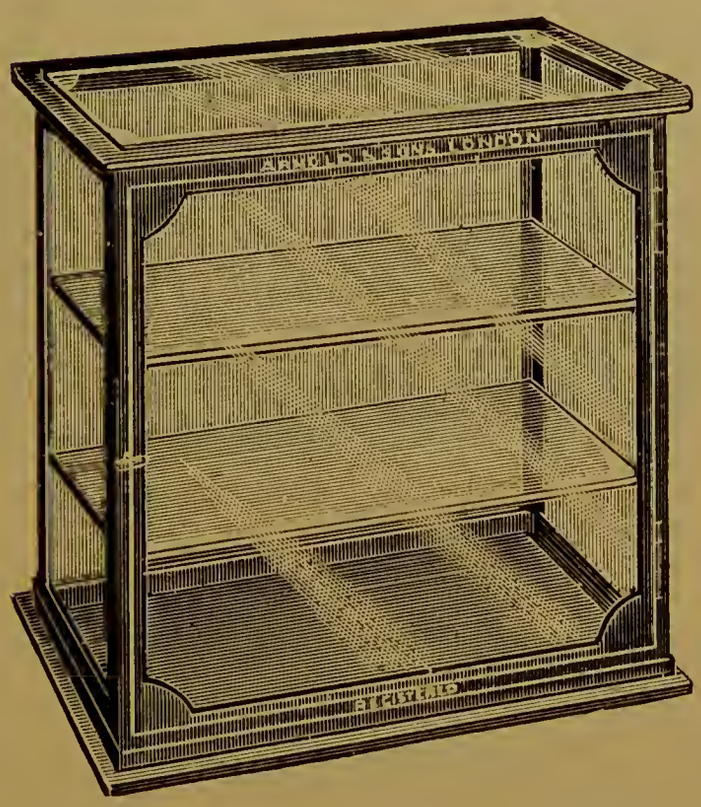


Fig. 1016.

	£	s.	d.
Aseptic Instrument Cabinet (Registered), 18 in. by 15 in. by 8 in. iron, enamelled white, with polished plate glass top, back sides, door, and two plate glass shelves with polished edges Fig. 1016	1	15	0
Aseptic Enamelled Iron Stand, for above	0	15	0

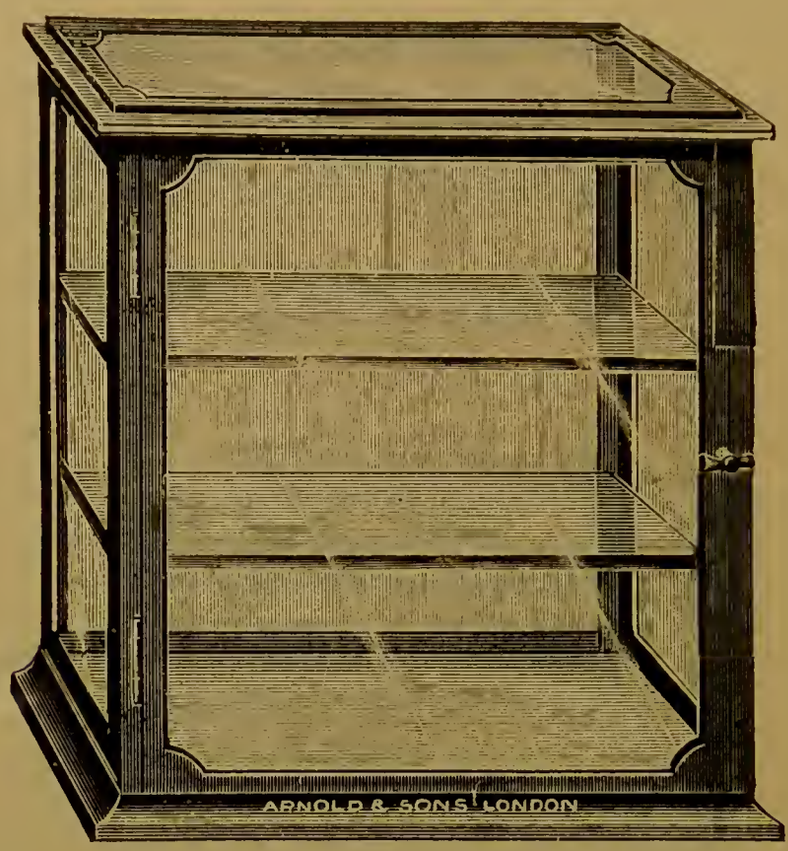


Fig. 1017.

	£	s.	d.
Aseptic Instrument Cabinet (Registered), 24 in. by 18 in. by 11 in., iron, enamelled white, with polished plate glass top, back, sides, door, and two plate glass shelves with polished edges, Fig. 1017	2	15	0
Aseptic Enamelled Iron Stand, for above	0	17	6

Extract from "THE VETERINARY RECORD,"

The above illustration represents a new and cheap form of cabinet, which has been made by Messrs. ARNOLD & SONS, of West Smithfield, at such a price as will come within the reach of every general practitioner. It is made entirely of iron, enamelled white, with ¼ in. polished plate glass top, back, sides and door, with two plate glass shelves, polished edges, made in two sizes, 18 in. by 14 in. by 8 in., 35s.; and 24 in. by 18 in. by 11 in., 55s.

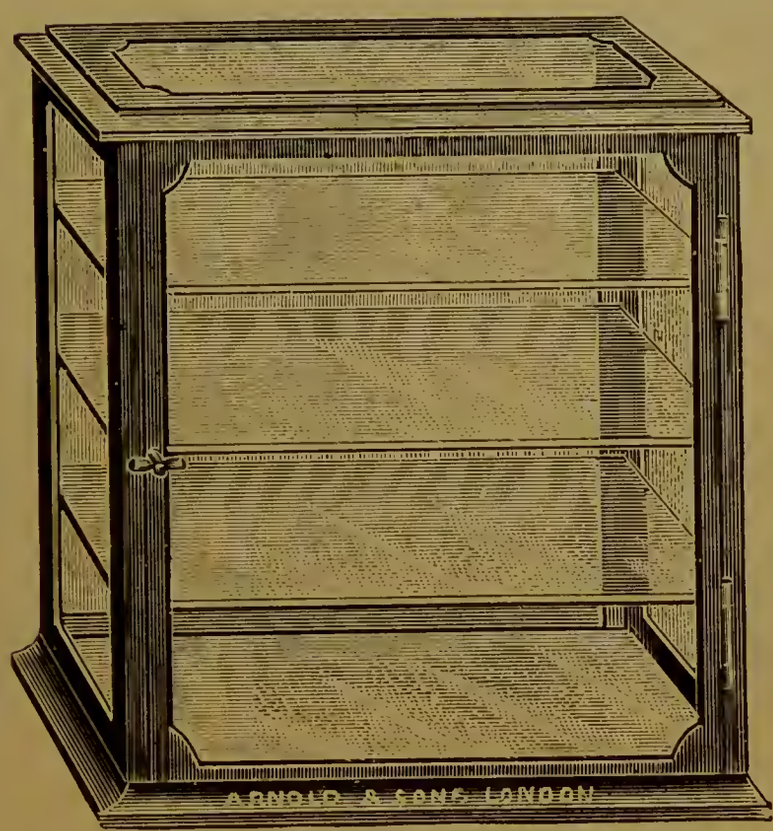


Fig. 1018.

	£	s.	d.
Aseptic Instrument Cabinet, very superior, 28 in. by 18 in. by 11 in., iron, enamelled white, with polished plate glass top, bottom, back, sides, door, three plate glass shelves with polished edges, and lock and key, Fig. 1018	8	10	0

If with enamelled iron back, 10s. less.

Ditto ditto ditto 36 in. by 24 in. by 14 in., with four plate glass shelves (as supplied to the War Office)	12	12	0

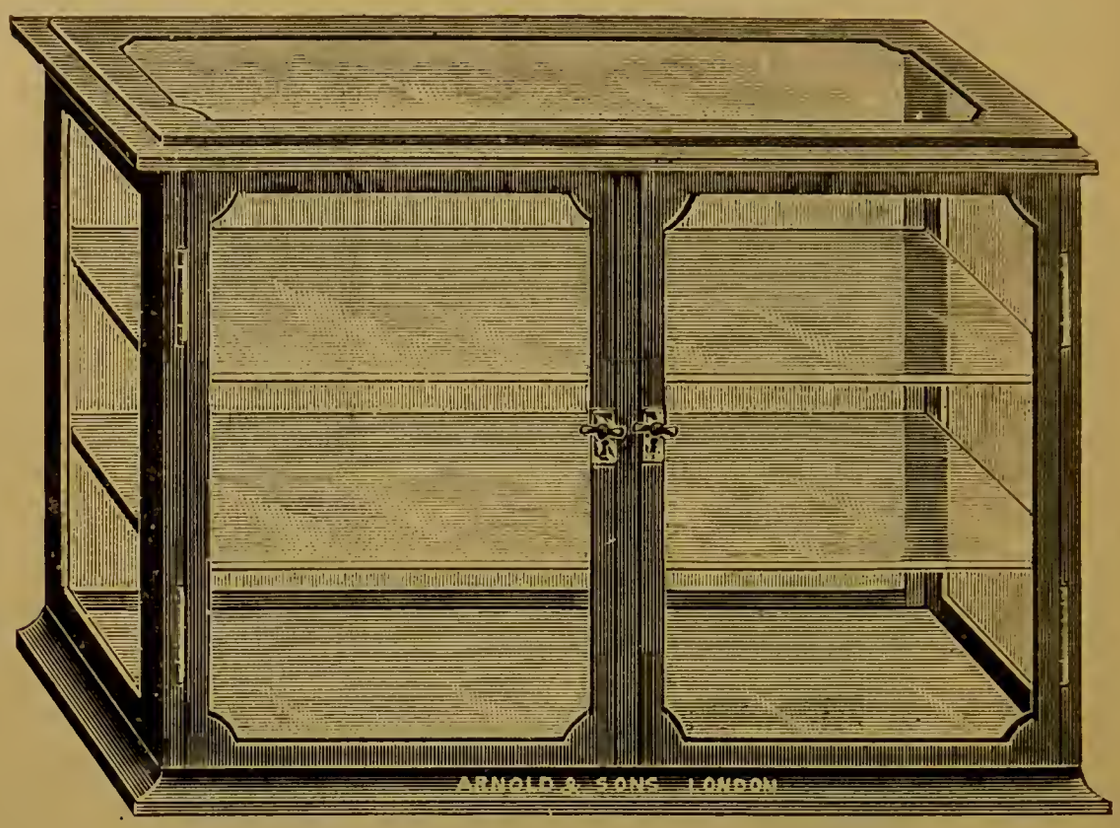


Fig. 1019.

	£	s.	d.
Aseptic Instrument Cabinet, very superior, 23 in. by 30 in. by 11 in., iron, enamelled white, with polished plate glass top, back, sides, doors, two plate glass shelves with polished edges, and lock and key, Fig. 1019	10	10	0

If with enamelled iron back, 15s. less.

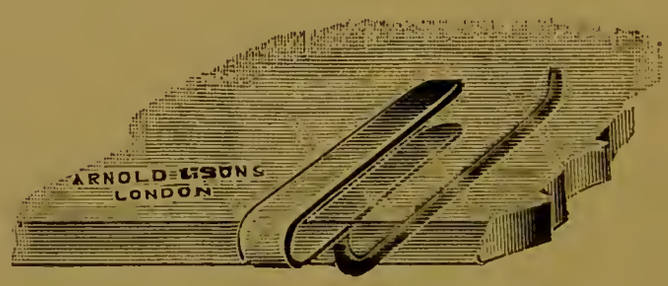


Fig. 1020.

Aseptic Clip, with rod, nickel-plated, for glass shelves of cabinets, for hanging scissors, forceps, &c., Fig. 1020	0	2	6

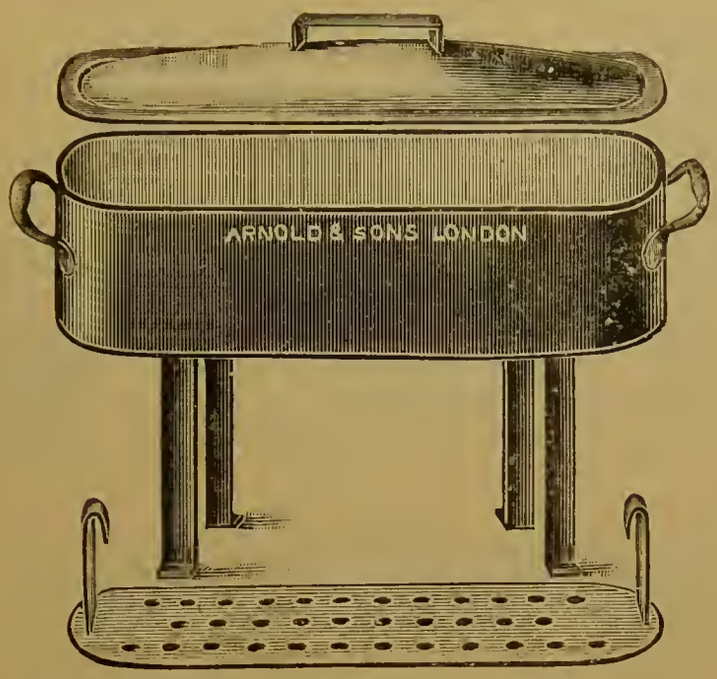


Fig. 1021.

	£	s.	d.
Sterilizer for Instruments, enamelled iron, 15 in. by 6 in., with perforated enamel tray to lift out	0	7	6
Ditto ditto ditto ditto with stand, complete, Fig. 1021	0	10	6
Bunsen Burner, for use with above	0	1	6

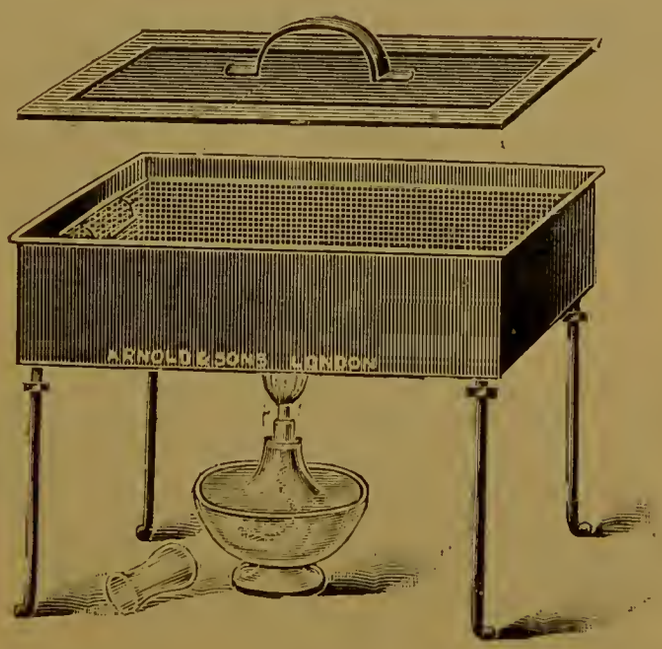


Fig. 1022.

	£	s.	d.
Sterilizer for Instruments, iron, enamelled white, with gauze tray and handles, for boiling in soda solution, Fig. 1022			
Size of container $9\frac{1}{2}$ in. by $4\frac{1}{2}$ in. by $2\frac{3}{4}$ in.	0	10	6
Ditto ditto $14\frac{1}{2}$ in. by $4\frac{3}{4}$ in. by $3\frac{1}{2}$ in.	0	19	6
Ditto ditto $21\frac{3}{4}$ in. by $6\frac{1}{4}$ in. by $4\frac{1}{4}$ in.	1	9	6

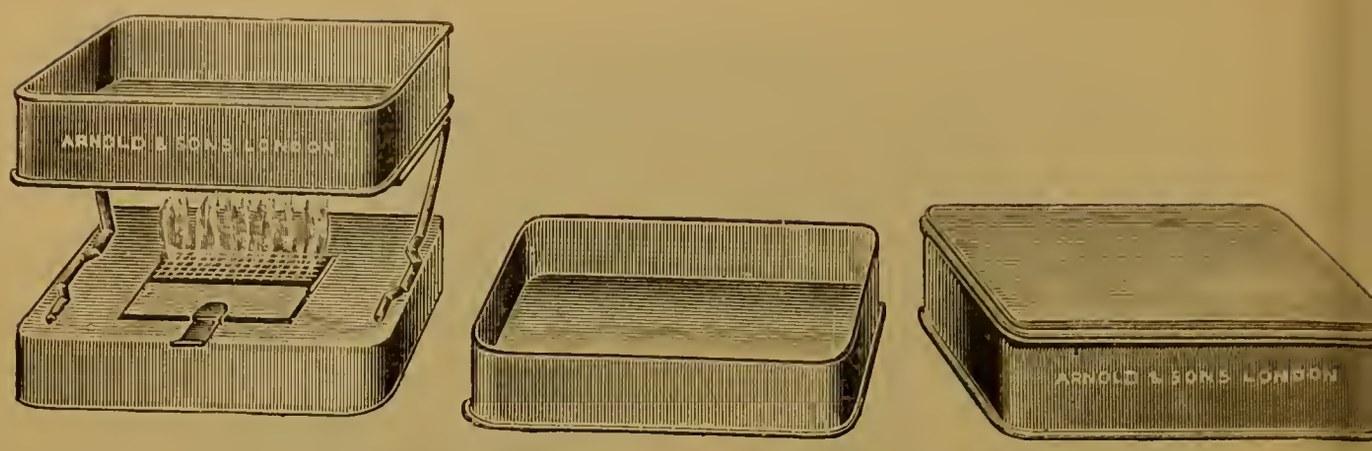


Fig. 1023.

	£	s.	d.
Sterilizer, Portable, for small instruments, $7\frac{1}{2}$ in. by $4\frac{1}{2}$ in. by 2 in., nickel-plated, Fig. 1023	0	19	6

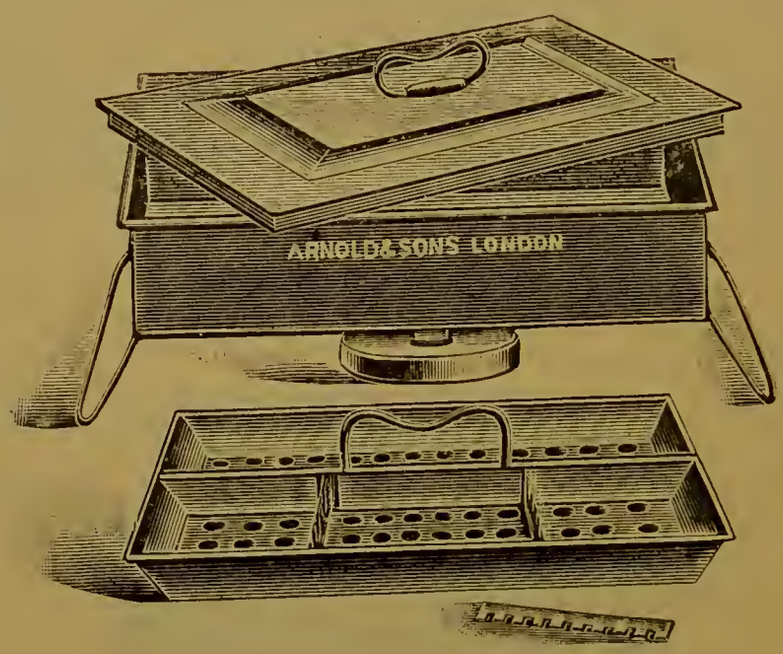


Fig. 1024.

Sterilizer, Portable, "Reliance," $9\frac{1}{2}$ in. by $6\frac{1}{2}$ in. by $2\frac{1}{2}$ in., for eye, minor, or other small instruments, with perforated tray, removable racks for scalpels, &c., folding legs, and spirit lamp, nickel-plated, complete, Fig. 1024	1	10	0

Fig. 1025.

Aseptic Rack, nickel-plated, or scalpels, &c., to hold six; can be used with any sterilizer, Fig. 1025	0	3	0

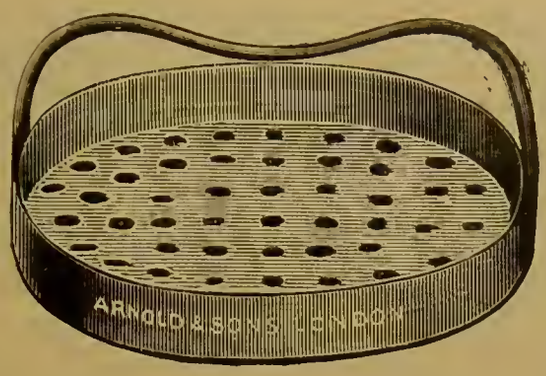


Fig. 1026.

	£	s.	d.
Aseptic Tray nickel-plated, perforated for needles; can be used with any sterilizer, Fig. 1026	0	3	9

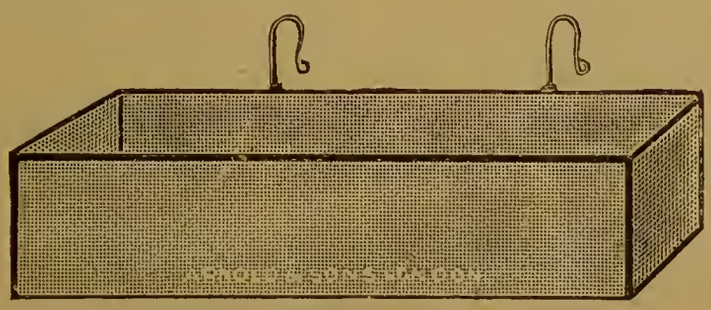


Fig. 1027.

Aseptic Instrument Tray (Prof. Hobday's), to fit on edge of bucket or bowl (as used at the Royal Veterinary College), Fig. 1027	0	3	6

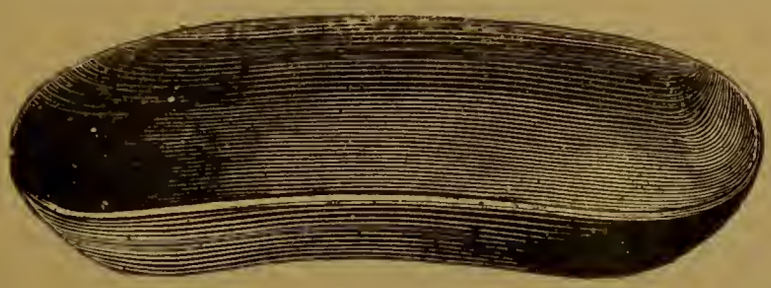


Fig. 1028.

Dressing Trays, kidney shaped, papier mâché, 4 sizes, Fig. 1028 6d., 9d., 1s. and	0	1	6
Ditto ditto vulcanite, 5 sizes 3s. 6d., 4s. 6d., 5s. 6d., 6s. 6d. and	0	7	6

Fig. 1029.

Trays for disinfecting instruments, &c., Fig. 1029 papier mâché $9\frac{1}{2}$ in. by $7\frac{1}{2}$ in. 3s. 9d., 12 in. by 10 in. 5s., $14\frac{1}{2}$ by 12 in. 7s., $16\frac{1}{2}$ by 14	0	10	0
Ditto ditto vulcanite ... ... 7s. 6d., 10s. 6d., and	0	15	0
Ditto ditto earthenware 10 in. by 8 in. 2s.6d., 11 in. by 9 in. 3s., 16 in. by 12 in. 9s., 18 in. by 16 in.	0	14	6
Ditto ditto glass $7\frac{1}{2}$ in. by $5\frac{1}{2}$ in. 3s., $9\frac{1}{2}$ in. by $7\frac{1}{2}$ in 5s., 11 in. by $7\frac{1}{2}$ in. 6s., 15 in. by 9 in. 8s., 15 in. by 13 in.	0	10	6

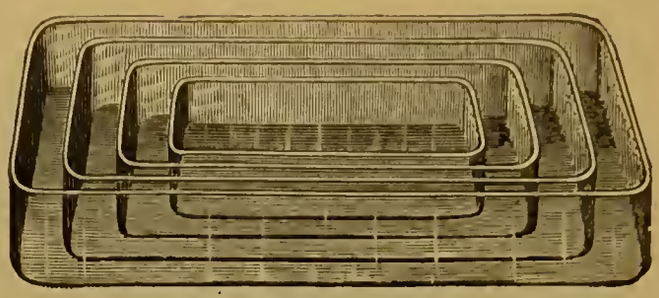


Fig. 1030.

	£	s.	d.
Trays, for disinfecting instruments, &c., glass, Fig. 1030, 7½ in. by 5½ in. 3s., 9½ in. by 7½ in. 5s., 11 in. by 7½ in. 6s., 15 in. by 9 in. 8s., 15 in. by 13 in.	0	10	6
Ditto ditto earthenware 10 in. by 8 in. 2s. 6d., 11 in. by 9 in. 3s., 16 in. by 12 in. 9s., 18 in. by 16 in.	0	14	6
Ditto ditto enamelled iron 10 in. 2s. 6d., 12 in. 3s., 14 in. 3s. 6d., 16 in.	0	4	6

Fig. 1031.

Glass Bowls, Fig. 1031, three sizes— 6¼ in., 1s. 6d., 8¾ in., 3s. 6d. 12 in.,	0	4	0

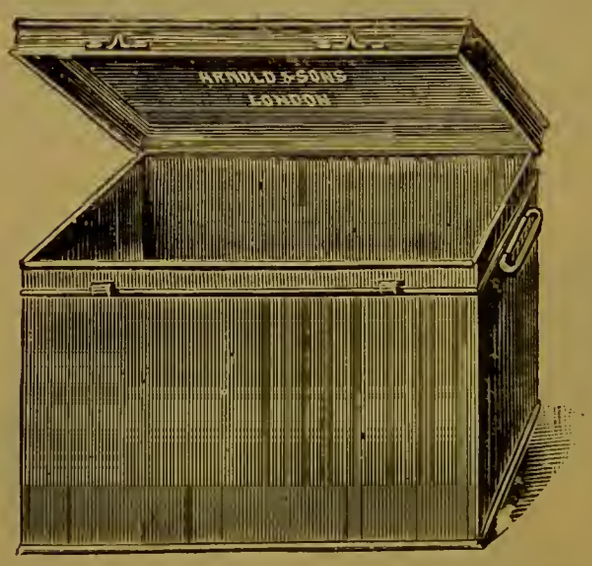


Fig. 1032.

Aseptic Box, enamelled white inside and out, for dressings, bandages, &c., with lock and key, Fig. 1032, 14 in. by 9½ in. by 10 in.	0	9	6
Ditto ditto ditto 16 in. by 11 in. by 11½ in.	0	11	6
Ditto ditto ditto 18 in. by 12¼ in. by 12 in.	0	13	0
Ditto ditto ditto 20 in. by 13½ in. by 13¼ in.	0	16	0

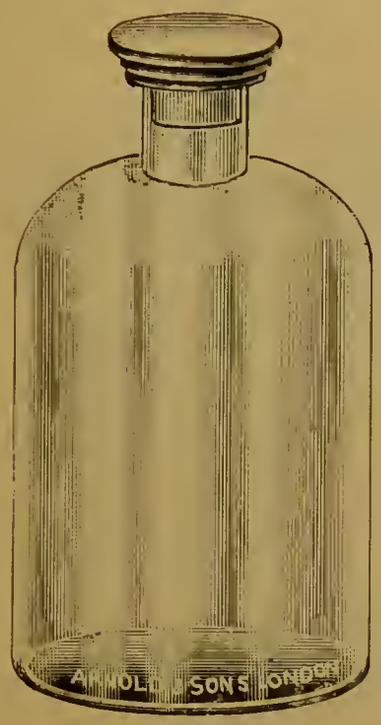


Fig. 1033.

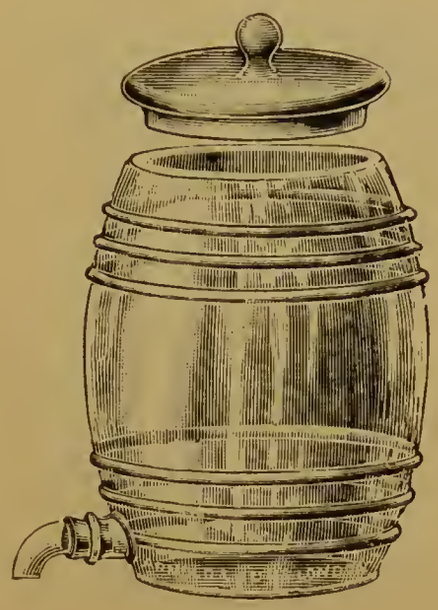


Fig. 1034.

	£	s.	d.
Glass Solution Jar, with ground on stopper, to hold 1 gallon, Fig. 1033	0	7	6
Ditto ditto ditto ditto ditto 2 ditto ...	0	10	6
Ditto ditto ditto ditto ditto 3 ditto ...	0	12	6
Ditto ditto very superior, with glass tube and India-rubber cork, to hold 2 gallons, Fig. 1034	1	1	0
Ditto ditto ditto $2\frac{3}{4}$ gallons	1	5	6

Fig. 1035.

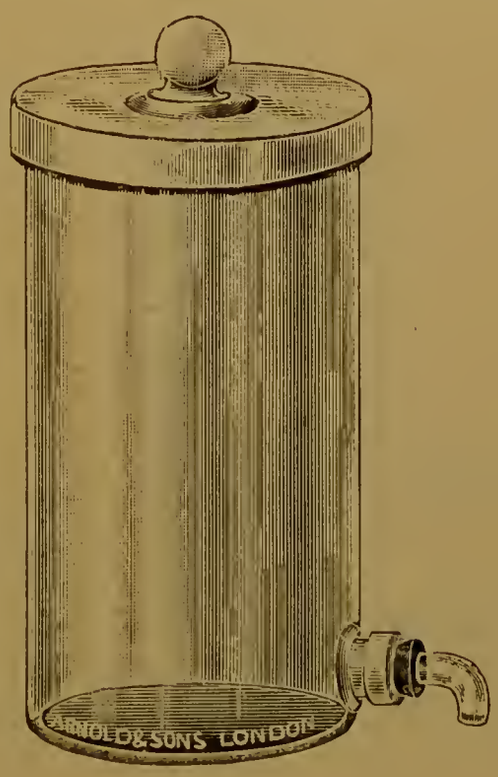


Fig. 1036.

Glass Solution Jar, with glass tube and India-rubber cork, and glass ground on stopper, Fig. 1035 ... 2 gallons, 16s. 6d.; 3 gallons	1	3	6
Ditto ditto with glass tube, India-rubber cork, and glass drop-on cover, Fig. 1036 2 gallons 16s. 6d., 3 gallons 21s., 4 gallons	1	2	6

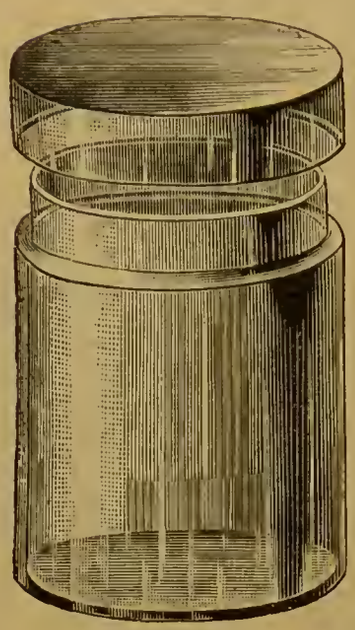


Fig. 1037.

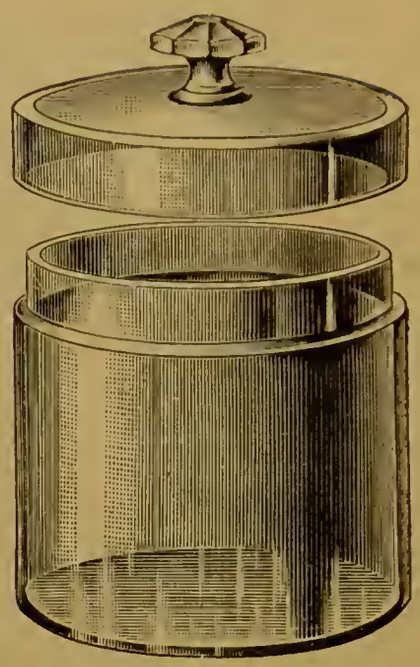


Fig. 1038.

		£	s.	d.
Glass Specimen Jar, fine white glass, with shoulder and drop-on cover, Fig. 1037	$7\frac{1}{2}$ in. by $5\frac{1}{2}$ in.	0	4	6
Ditto ditto ditto Fig. 1038	6 in. by 6 in.	0	5	6
Ditto ditto ditto ditto ...	$8\frac{1}{4}$ in. by $8\frac{1}{4}$ in.	0	8	6
Ditto ditto ditto ditto ...	$10\frac{1}{4}$ in. by $10\frac{1}{4}$ in.	0	10	6

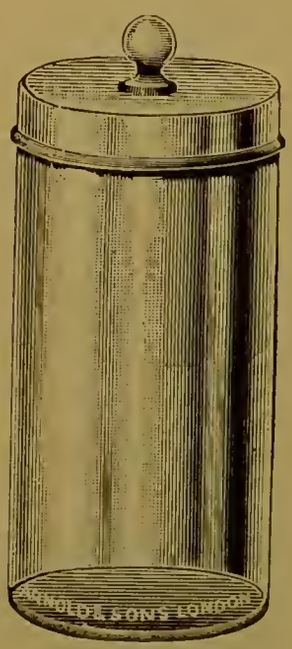


Fig. 1039

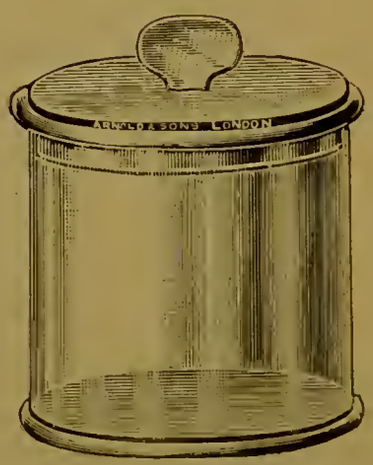


Fig. 1040.

Glass Jar, with drop-on cover for sponge, gauze, drainage tubing, &c., $10\frac{1}{4}$ in. by $5\frac{1}{4}$ in., Fig. 1039	0	4	0
Ditto with ground-on air-tight cover, cylindrical, for sponge, gauze, drainage tubing, &c., Fig. 1040 $9\frac{1}{2}$ in. by $5\frac{1}{2}$ in. 6s. 6d., 11 in. by 6 in. 7s. 6d., 10 in. by 7 in.	0	8	6

Fig. 1041.

Fig. 1042.

	£	s.	d.
Aseptic Wash Basin, iron, enamelled white, Fig. 1041 10 in. 7d., 12 in. 10d., 14 in. 1s. 2d., 16 in.	0	1	10
Ditto Solution Basin, iron, enamelled white, Fig. 1042 12 in. 1s. 6d., 14 in. 2s., 16 in.	0	2	9

Fig. 1043.

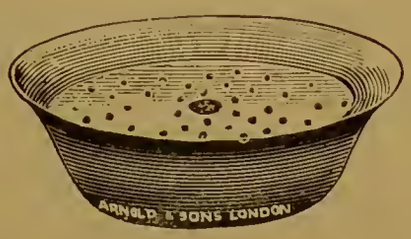


Fig. 1044.

Aseptic Solution Bowl, iron, enamelled white, Fig. 1043 6 in. 6d., 8 in. 9d., 10 in. 1s. 3d., 12 in. 2s., 14 in.	0	2	8
Ditto Sponge Bowl, iron, enamelled white, Fig. 1044 6½ in. 1s. 8d., 8 in.	0	1	10

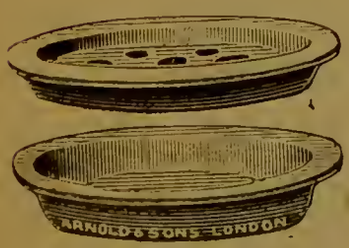


Fig. 1045.

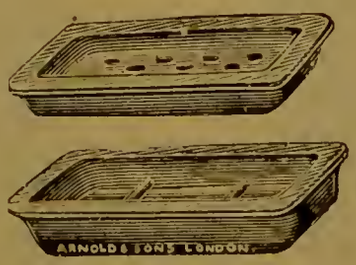


Fig. 1046.

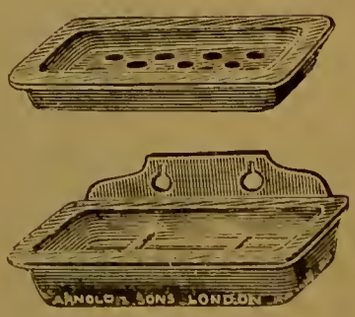


Fig. 1047.

Aseptic Soap Dish, round, iron, enamelled white, Fig. 1045 ...	0	0	7
Ditto ditto oblong, ditto ditto Fig. 1046 ...	0	0	8
Ditto ditto ditto ditto to hang, Fig. 1047 ...	0	0	9

Fig. 1048.

Fig. 1049.

Fig. 1050.

	£	s.	d.
Aseptic Jug, iron, enamelled white, Fig. 1048 3 pints 2s., 6 pints 2s. 8d., 12 pints	0	4	3
Ditto ditto ditto with metal cover, Fig. 1049 3 pints	0	3	6
Ditto ditto ditto Fig. 1050 3 pints 2s. 3d., 6 pints 3s. 3d., 12 pints 5s. 10d., 16 pints	0	7	6

Fig. 1051.

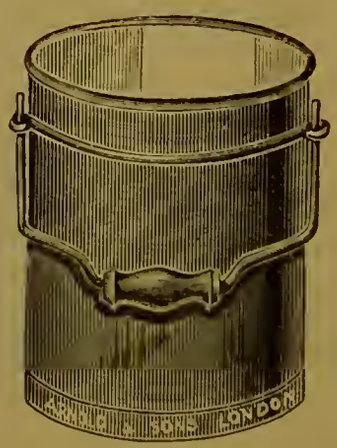


Fig. 1052.

Aseptic Pail, iron, enamelled white, Fig. 1051 10 in. 4s., 12 in.	0	6	0
Ditto ditto ditto large, Fig. 1052	0	8	0

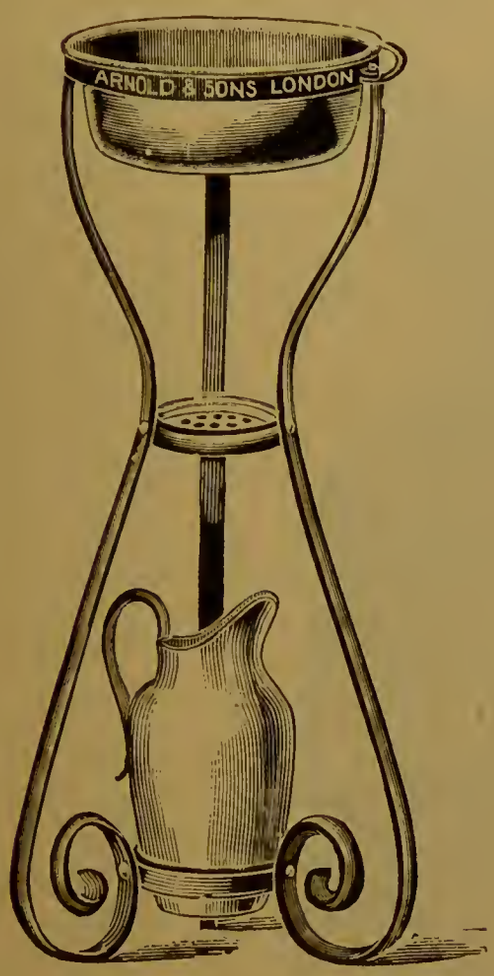


Fig. 1053.

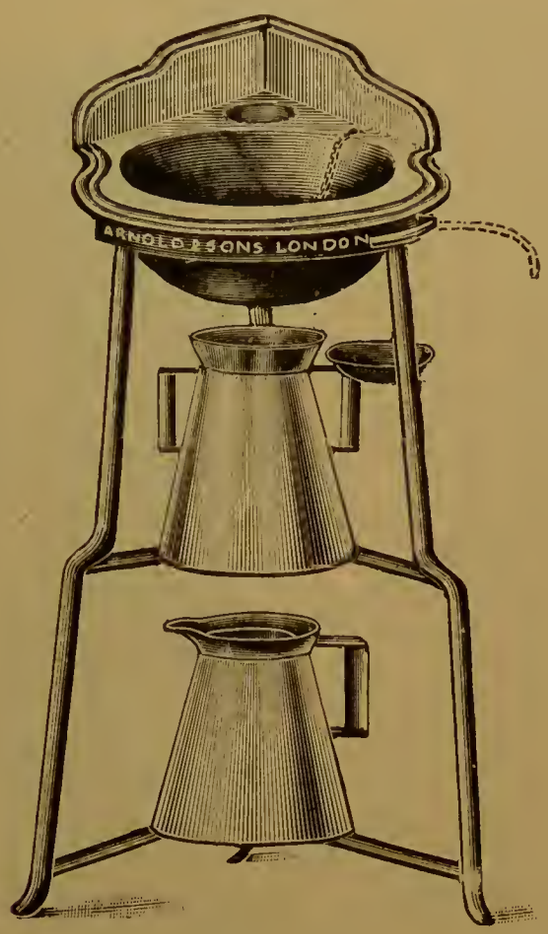


Fig. 1054.

	£	s.	d.
Aseptic Washstand, iron, enamelled white, with basin, soap dish, water jug, and towel hanger, Fig. 1053	0	13	6
Ditto ditto ditto ditto fitted with pail, water jug, soap dish, towel hanger, and white earthenware basin top, complete, Fig. 1054	1	5	6

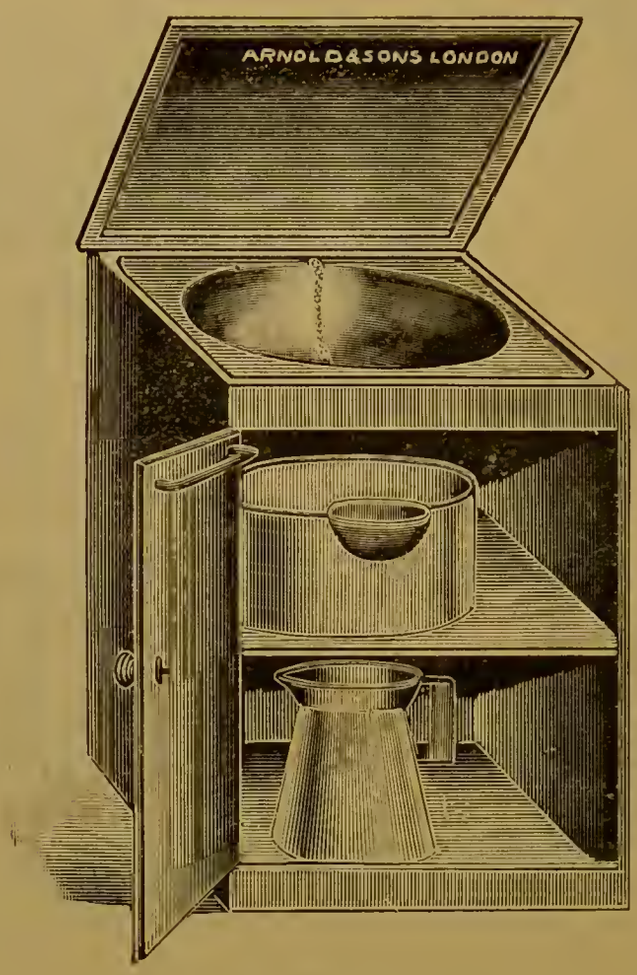


Fig. 1055.

	£	s.	d.
Aseptic Washstand, made entirely of iron, enamelled white inside and out, fitted with basin, pail, water jug, and soap dish, complete, Fig. 1055	2	5	6

Dressings, &c.

		£	s.	d.
Bandages, Carbolic Gauze	per doz. 2 in. 1s. 3d., 2½ in. 1s. 4d., 3 in. 1s. 9d., 4 in. 2s. 3d., 6 in.	0	2	9
Ditto Double Zinc Cyanide	... per doz. 2 in. 1s. 4d., 2½ in. 1s. 8d., 3 in.	0	2	0
Ditto Sal Alembroth	per doz. 2 in. 1s. 3d., 3 in.	0	1	8
Gauze, Boric	per packet of 6 yds.	0	1	0
Do. Carbolic	ditto ditto	0	1	0
Do. Chinosol, 3 per cent.	ditto ditto	0	1	5
Do. Double Zinc-Cyanide	ditto ditto	0	1	3
Do. Eucalyptus	ditto ditto	0	1	3
Do. Iodoform	ditto ditto	0	2	3
Do. Sal Alembroth	ditto ditto	0	1	0
Do. Salicylic	ditto ditto	0	1	9
Do. Sanitas	ditto ditto	0	1	3
Do. Sublimate	ditto ditto	0	1	0
Do. Thymol	ditto ditto	0	2	0
Lint, Boric	... ... per lb.	0	1	9
Do. Carbolic	per lb. 2s. 6d. and	0	3	0
Do. Chinosol, 3 per cent.	... ... per lb.	0	3	2
Do. Cotton	per lb. 1s. 6d., 1s. 9d. and	0	2	0
Do. Flax	per lb. 2s. 6d. and	0	3	0
Do. Iodoform	... ... per lb.	0	6	6
Do. Marine	... ... ditto	0	1	0
Wool, Boric	per lb. 1s. 6d. and	0	2	0
Do. Carbolic	... ... per lb.	0	2	0
Do. Chinosol, 3 per cent.	... ... ditto	0	2	9
Do. Cotton	per lb. 1s. 3d., 1s. 6d. and	0	2	0
Do. Cotton Absorbent	per lb. 1s. 3d., 1s. 6d. and	0	2	0
Do. Double Zinc-Cyanide	.. .. per lb.	0	3	0
Do. Eucalyptus	... ... ditto	0	2	3
Do. Iodized	... ... ditto	0	5	6
Do. Iodoform	... ... ditto	0	5	6
Do. Sal Alembroth	... ... ditto	0	2	0
Do. Salicylic	... ... ditto	0	2	6
Do. Wood	... ... ditto	0	1	3
Carbolic Tow (Calvert's)	... ... ditto	0	1	0
Chinosol Tow, 3 per cent.	... ... ditto	0	1	10
Gutta-Percha Tissue	... per yard	0	1	6
Oiled Silk, protective	... ditto	0	2	6
Pink Jaconet	... ditto	0	2	6
Spongio Piline	... ditto	0	15	0
Wood Wool Tissue	... per lb.	0	2	0

		s.	d.		£	s.	d.
Chinosol Powder, for internal and external application, in 1 oz. bottle...	per bot.	1	4	per doz.	0	13	6
Ditto ditto in 4 oz. ditto ...	ditto	4	9	ditto	2	9	6
Ditto ditto in 8 oz. ditto ...	ditto	9	3	ditto	4	14	6
Ditto Veterinary Powder, for external application only, in 1 oz. tins	per tin	1	1	ditto	0	10	6
Ditto ditto in 4 oz. do. ...	ditto	4	0	ditto	2	0	0
Ditto ditto in 8 oz. do. ...	ditto	7	6	ditto	3	18	0
Chinosol Tablets, 15 grains each, 14 in tube	per tube	1	0	ditto	0	9	0
Ditto ditto in 4 oz. bottle ...	per bot.	5	3	ditto	2	14	0
Ditto ditto in 8 oz. ditto ...	ditto	10	0	ditto	5	2	0
Ditto ditto 8 grains each, 25 in tube	per tube	1	0	ditto	0	9	0
Chinosol Sanitary Tablets, 45 grains each, 12 tablets in tin	per tin	1	8	ditto	0	15	0
Chinosol Dusting Powder for Wounds, in tins with perforated top ...	ditto	1	0	ditto	0	9	0
Ditto ditto ditto in 1 lb. tins	ditto	4	0	ditto	1	16	0
Chinosol Dusting Powder for Killing Parasites, in tins with perforated top	ditto	1	0	ditto	0	9	0
Ditto ditto ditto in 1 lb. tins	ditto	4	0	ditto	1	16	0
Chinosol Veterinary Ointment, in 3 lb. tins	ditto	5	0	ditto	2	8	0
Ditto ditto ditto in 7 lb. do.	ditto	11	0	ditto	5	5	0
Chinosol Veterinary Soap, single small cakes	per cake	0	6	ditto	0	4	6
Ditto ditto ditto large ditto	ditto	1	0	ditto	0	9	0
Chinosol Veterinary Embrocation, in bottle	per bot.	2	0	ditto	0	18	0
Chinosol Sheep Dip Powder, in 3 lb. tins	per tin	20	0	ditto	9	0	0
Ditto ditto ditto in 7 lb. do.	ditto	45	0	ditto	20	5	0
Chinosol Veterinary Tablets, 12 tablets in tin	ditto	1	8	ditto	0	15	0
Ditto ditto 80 ditto	ditto	8	6	ditto	4	6	0
Ditto ditto 160 ditto	ditto	16	0	ditto	8	8	0
Chinosol Disinfecting Sprinking Powder, D.F., for stables, yards, sheds, &c., in 2 cwt. casks ...				per cwt.	0	12	6
Ditto ditto ditto				per ton	11	10	0

Miscellaneous.

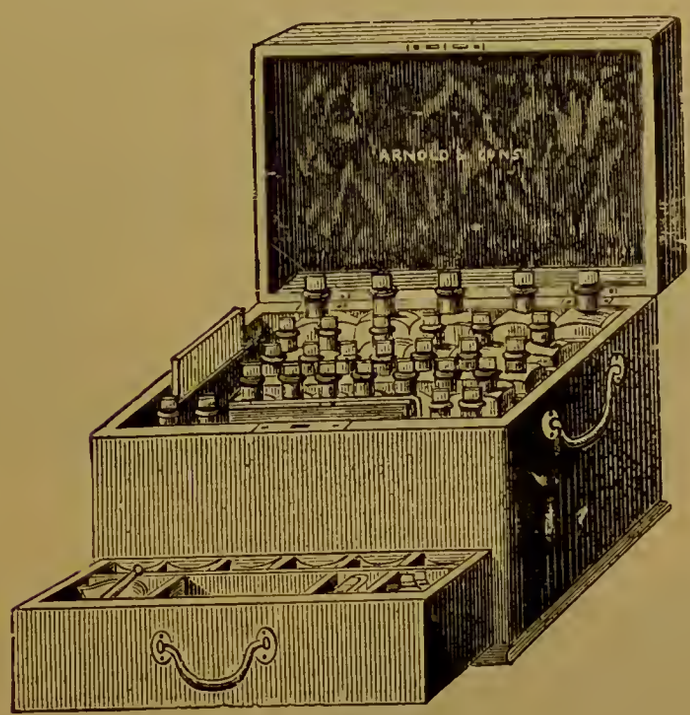


Fig. 1056.

	£	s.	d.
Medicine Chest (Arnold & Sons' improved), oak, 14½ in. long, 10¾ in. wide, 10 in. deep, containing five 8-oz., six 4-oz., twelve 2-oz., four 1-oz. green stoppered bottles, pill tile, five 3-oz. pots, three 1-oz. bottles, pestle and mortar, measure, scales, weights, and knife with drawer, Fig. 1056	4	0	0
Ditto ditto with white bottles, cut stoppers, in mahogany case	4	10	0
Ditto ditto oak, containing eight 16-oz., four 2-oz. stoppered bottles, thirteen tin boxes for ointment and balls, scales and weights, mortar, measure, and spatula	5	5	0

Medicine Chests for stables fitted to order.

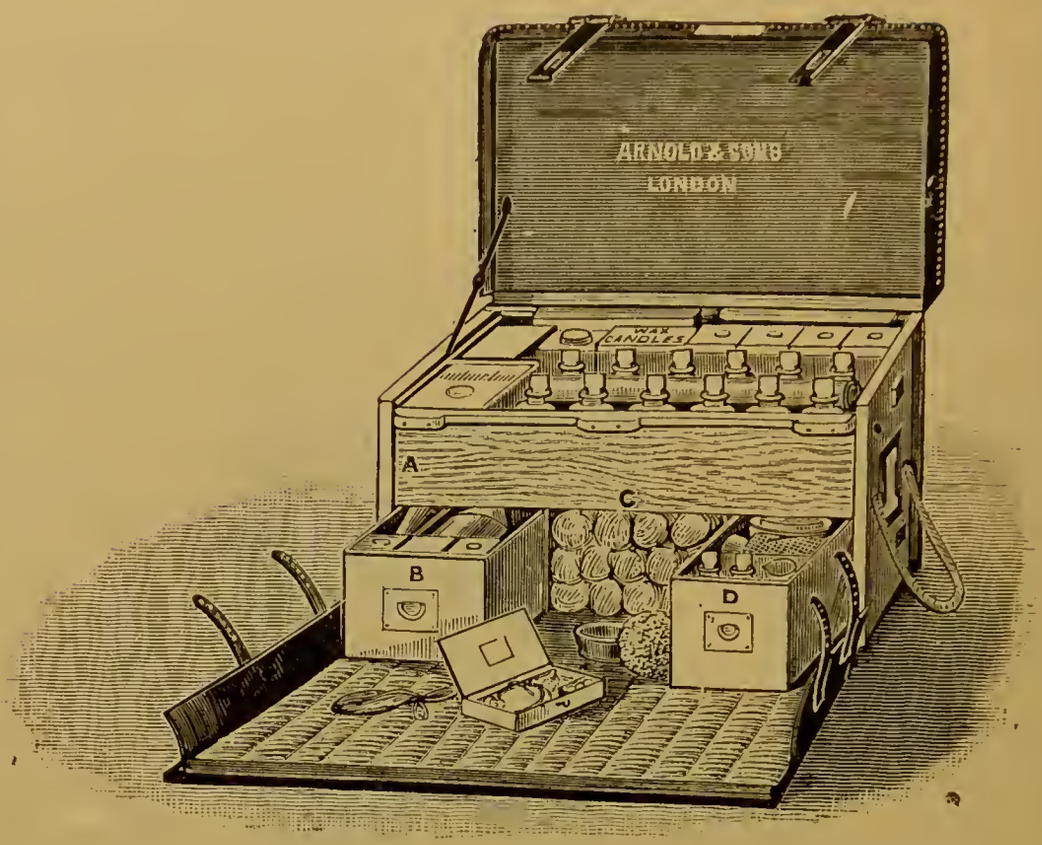


Fig. 1057.

Fig. 1058.

Field Veterinary Panniers, designed and manufactured by Arnold & Sons for the Veterinary Department of the War Office, Figs. 1057 and 1058.

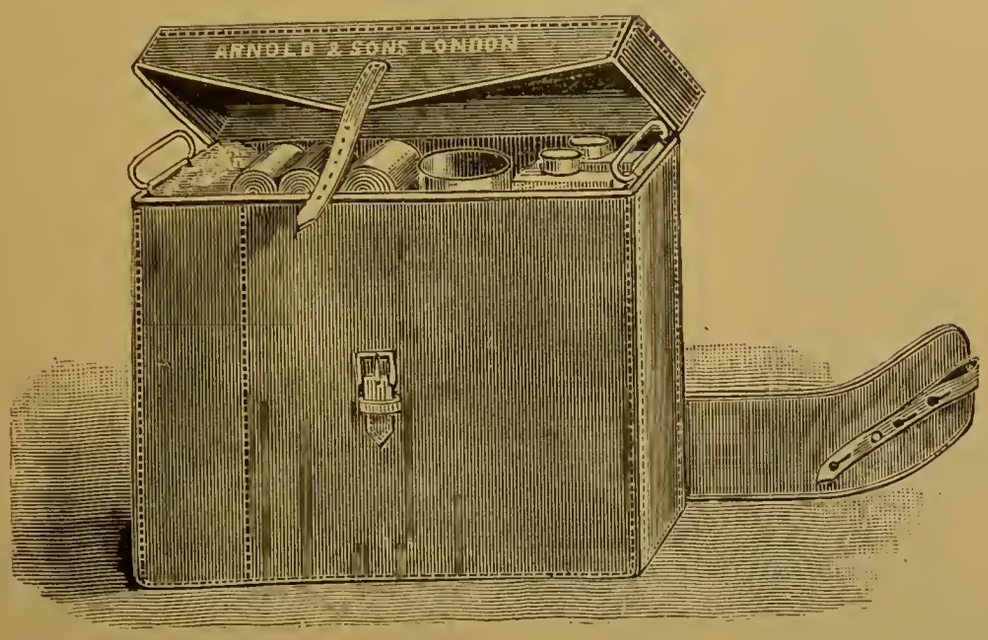


Fig. 1059.

Field Veterinary Wallet, as manufactured and supplied by Arnold & Sons for the Veterinary Department of the War Office, Fig. 1059.

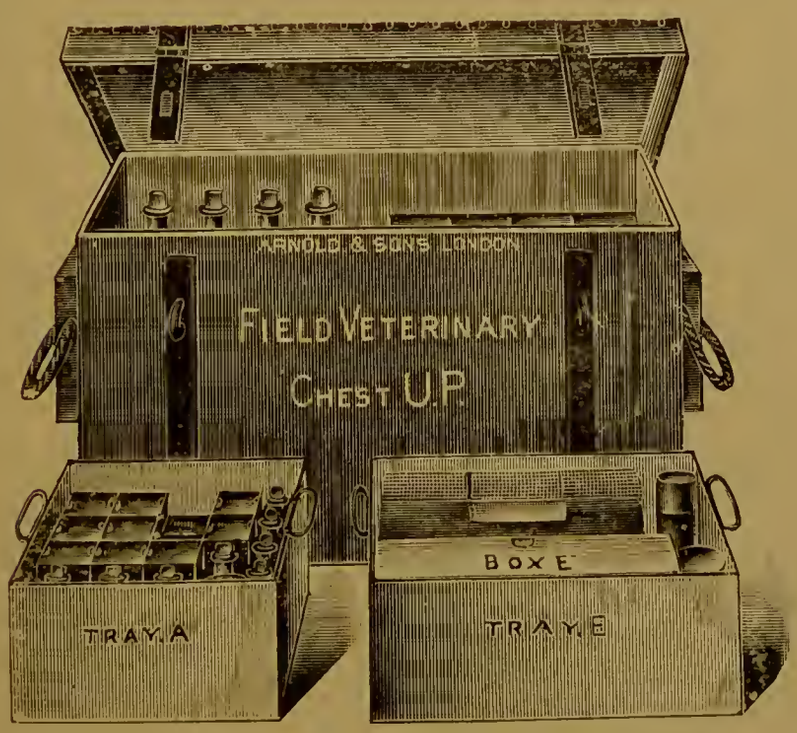


Fig. 1060.

Field Veterinary U.P. Chest, designed and manufactured by Arnold & Sons for the Veterinary Department of the War Office, Fig. 1060.

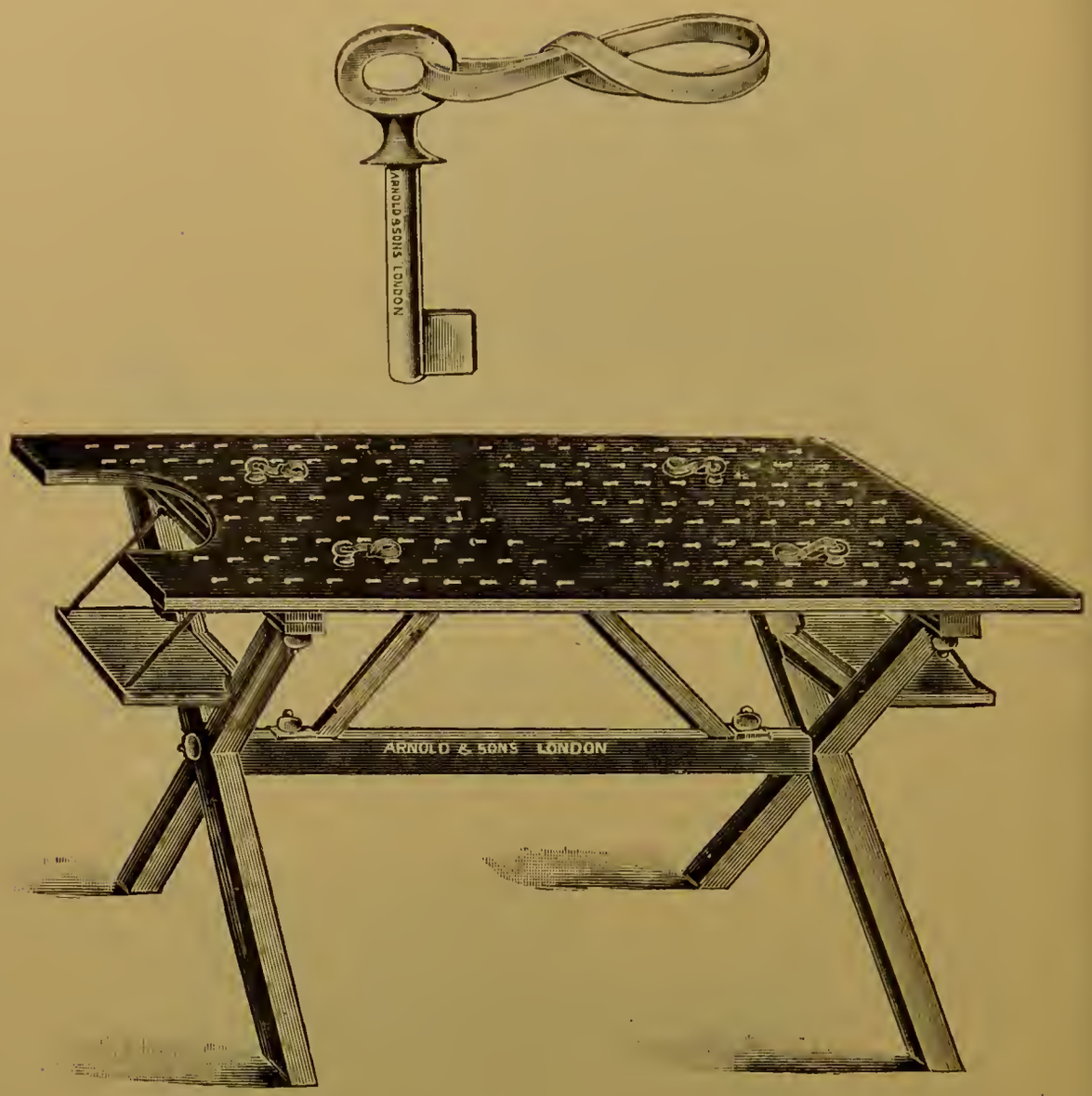


Fig. 1061.

	£	s.	d.
Operation Table (Prof. Hobday's) (Registered), for Dogs, Cats, &c., with four brass key hobbles, complete, Fig. 1061	2	10	0
Top of Table only, with four key hobbles	1	17	6

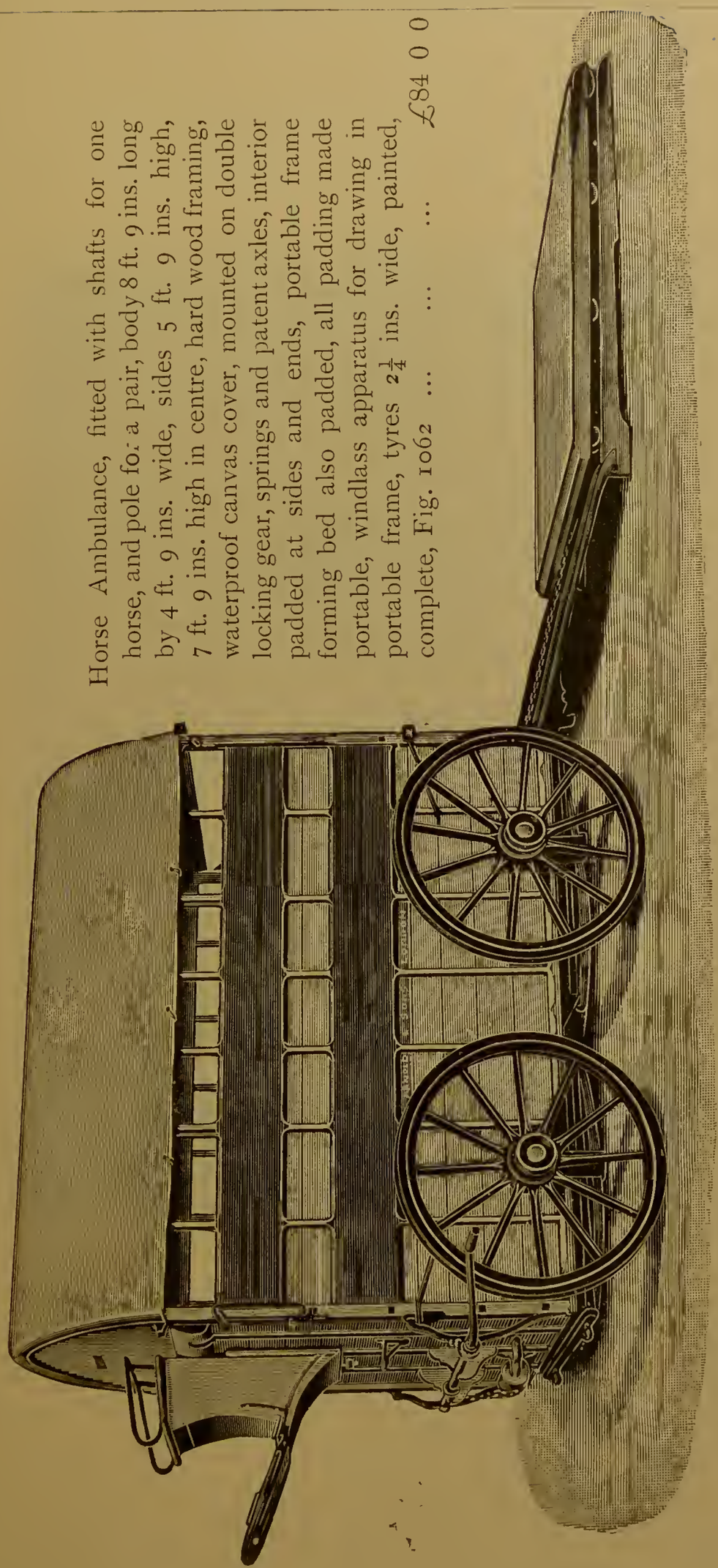
Extract from "THE VETERINARIAN."

Some time ago I published a description of a canine operation table, and since then I have had numerous inquiries regarding it. Finding that in many cases practitioners state that they are unable to get the table and keys made properly by the local carpenter, I have placed the matter in the hands of Messrs. ARNOLD & SONS, of West Smithfield. By their kind suggestion numerous improvements have been added, and I think that it is now much more complete and useful.

This pattern of table has been thoroughly tested in the Free Out-patients' Clinque for the past four years, during which time more than 3,000 dogs and cats have been secured for all kinds of operations without injury or accident.

The animal to be secured should be placed on the table with loops of the hobbles, as indicated on the diagram, passed and pulled tight over the knees or elbows and hocks.

To fasten the patient in the abdominal position, the fore-limbs should be fixed firmly by placing the keys through the holes and turning them round, after which the hind legs are drawn backwards together, and spread apart in a similar way, the object being to stretch the animal out *just so tight that it has the minimum amount of room for struggling.*



Horse Ambulance, fitted with shafts for one horse, and pole for a pair, body 8 ft. 9 ins. long by 4 ft. 9 ins. wide, sides 5 ft. 9 ins. high, 7 ft. 9 ins. high in centre, hard wood framing, waterproof canvas cover, mounted on double locking gear, springs and patent axles, interior padded at sides and ends, portable frame forming bed also padded, all padding made portable, windlass apparatus for drawing in portable frame, tyres $2\frac{1}{4}$ ins. wide, painted, complete, Fig. 1062 ... ... £84 0 0

Fig. 1062.

Fig. 1063.

Fig. 1064.

	£	s.	d.
Operation Table (Trapp's Patent) for Horse or Cattle, Figs. 1063 and 1064	32	0	0

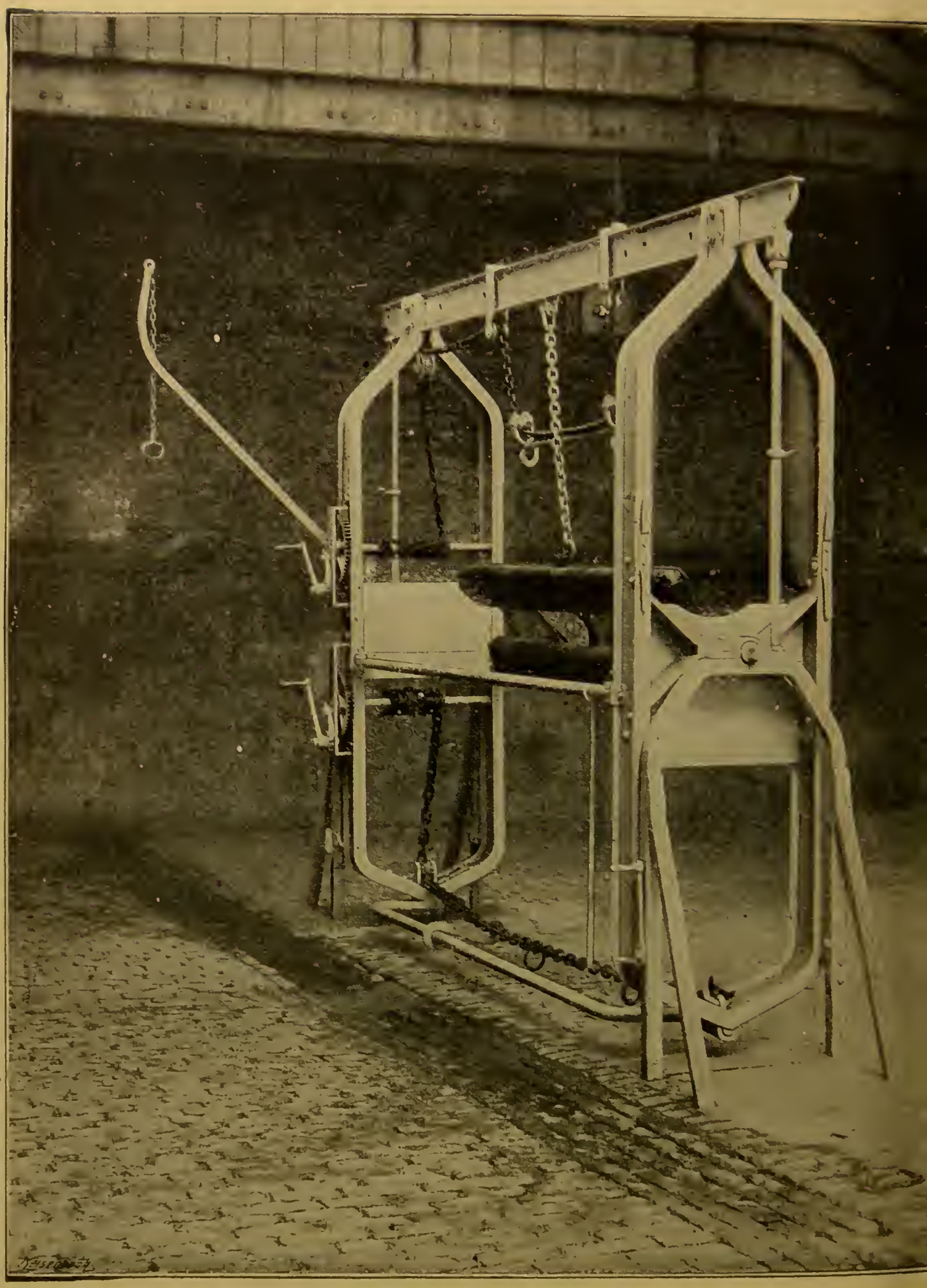


Fig. 1065.

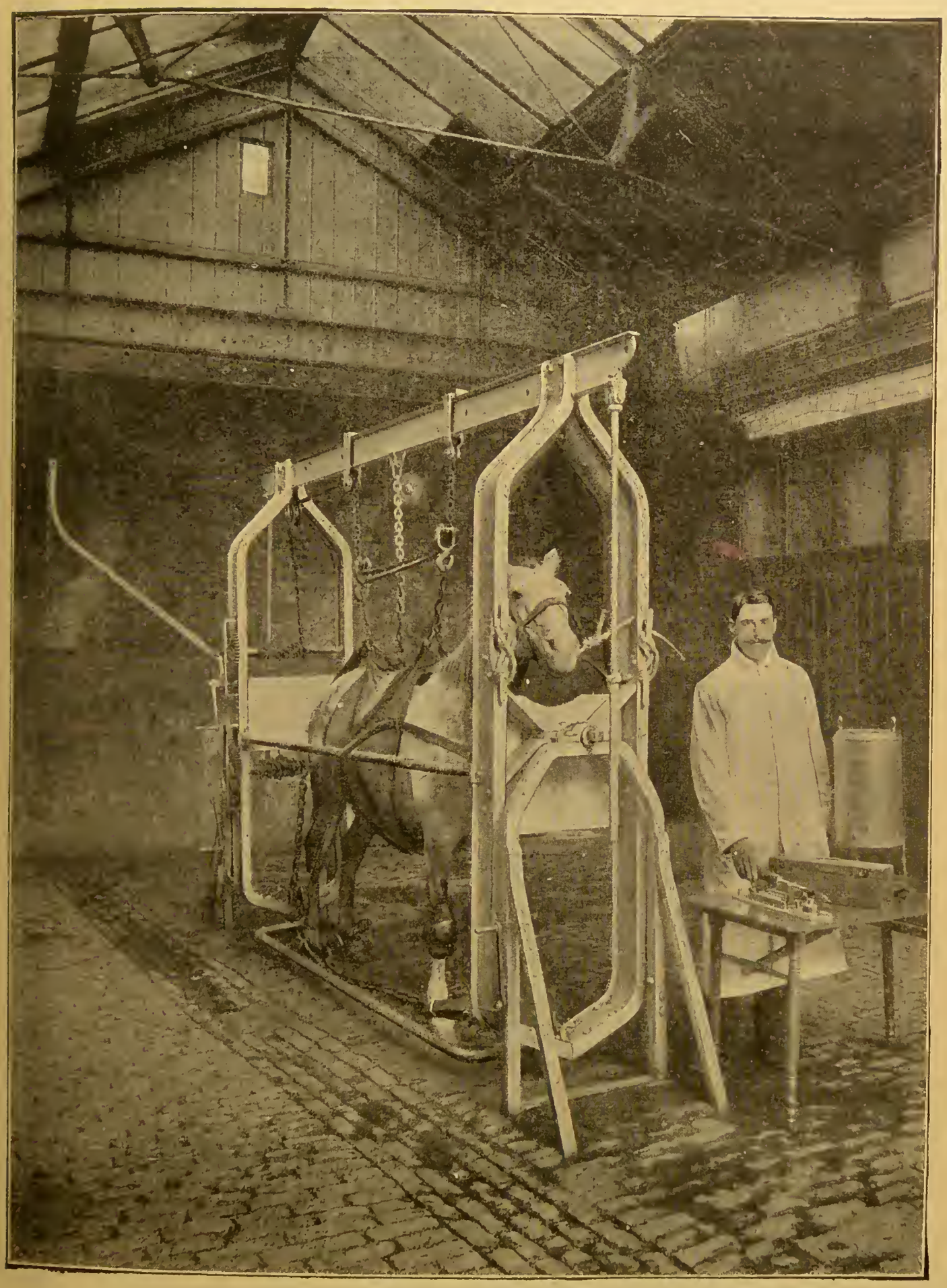


Fig. 1066.

	£	s.	d.
Operation Table (Dollar's), complete, Figs. 1065 and 1066 ...	75	0	0

Fig. 1067.

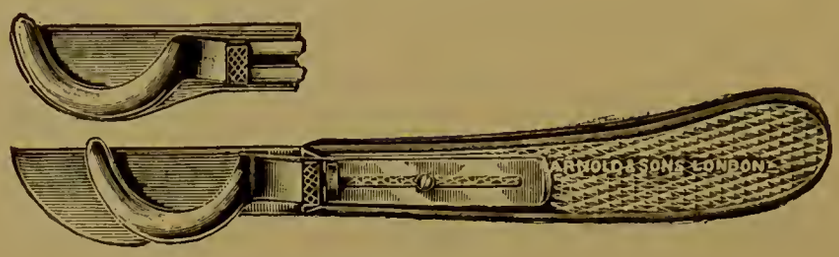


Fig. 1068.

	£	s.	d.
Ecraseur (Prof. Hobday's), for Spaying Mares and Cattle, with knife, in leather case, complete, Figs. 1067 and 1068	5	0	0

Fig. 1069.

Mortars and Pestles, glass ... 2 oz. 8d., 4 oz. 9d., 6 oz. 1s., 8 oz.	0	1	6
Ditto ditto wedgwood, composition, Fig. 1069 4 oz. 1s. 2d., 8 oz. 1s. 8d., 12 oz. 2s., 16 oz. 2s. 9d., 22 oz. 3s. 6d., 36 oz. 4s. 6d., 3 pints 8s., 5 pints 9s. 6d., 6 pints	0	12	0
Ditto ditto iron (tinned inside) 1 pint 2s., 2 pints 3s. 3d., 3 pints 4s. 6d., 4 pints 6s., 5 pints 7s. 6d., 4 quarts	0	10	0

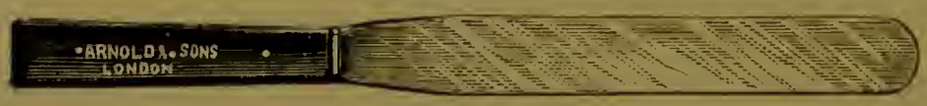


Fig. 1070.

Spatulas or Palette Knives, in strong riveted handles, Fig. 1070 6 in. 8d., 7 in. 1s., 8 in. 1s. 3d., 9 in. 1s. 6d., 10 in. 1s. 10d., 11 in. 2s. 4d., 12 in.	0	3	0
Ointment Slabs ... ... 8 in. 10d., 10 in. 1s. 3d., 12 in.	0	2	0

Fig. 1071.

Fig. 1072.

	£	s.	d.
Measures, glass, graduated, conical or cup shaped, Figs. 1071 and 1072 1 dr. 6d., 2 dr. 8d., ½ oz. 6d., 1 oz. 6d., 2 oz. 7d., 3 oz. 8d., 4 oz. 9d., 6 oz. 11d., 8 oz. 1s., 10 oz. 1s. 2d., 12 oz. 1s. 6d., 16 oz. 1s. 9d., 20 oz.	0	2	0

Fig. 1073.

Fig. 1074.

Funnels, Enamelled Iron, Fig. 1073 ... 4 oz. 6d., 8 oz. 7d., 20 oz.	0	0	9
Ditto Glass, plain per doz., 1 oz. 2s., 2 oz. 2s. 3d., 4 oz. 3s. 9d., 8 oz. 5s. 3d., 20 oz.	0	7	6
Ditto ditto ribbed per doz., 1 oz. 2s., 2 oz. 3s., 4 oz. 4s., 8 oz. 6s., 20 oz.	0	8	0
Ditto Earthenware 1 oz. 8d., 2 oz. 9d., 4 oz. 1s., 8 oz. 1s. 6d, 1 pint 2s., 3 pints	0	3	6
Spirit Lamps, glass ... ...2s. and	0	2	6
Ditto brass, as supplied to her Majesty's Navy, Fig. 1074	0	3	0

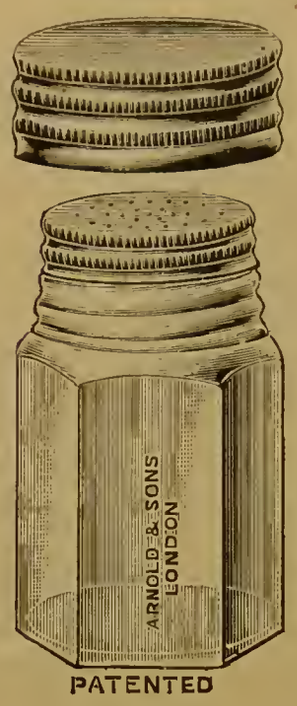


Fig. 1075.

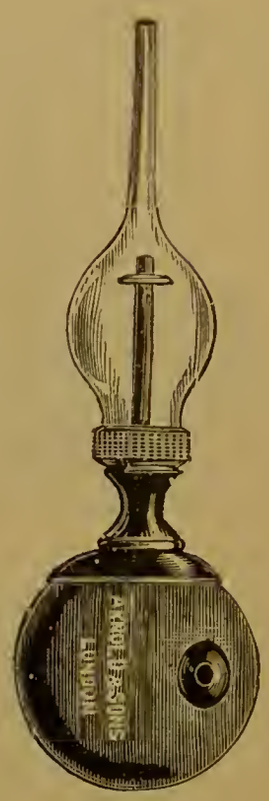


Fig. 1076.

	£	s.	d.
Iodoform Dredger Glass, as supplied to the War Office, Fig. 1075	0	0	6
Ditto Blower, glass, with vulcanite fittings and india-rubber ball, Fig. 1076	0	2	6

Fig. 1077.

Skinning Knife, superior, with lock back, 5 in. blade, Fig. 1077 ...	0	6	0
Ditto ditto ditto 6 in. blade	0	8	6
Pin Scissors	0	3	6

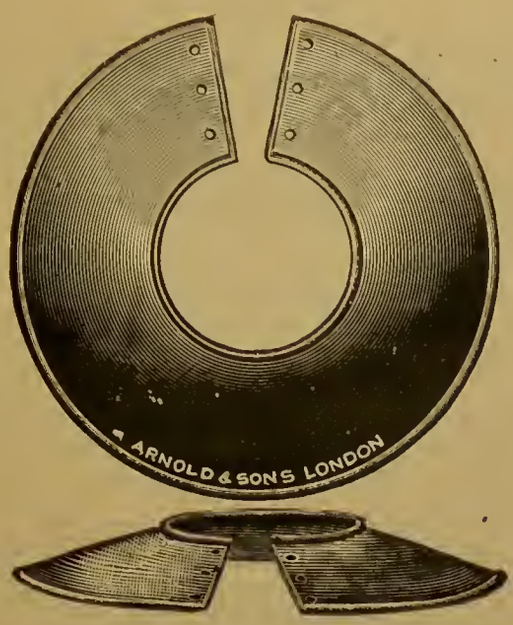


Fig. 1078.

	£	s.	d.
Elizabethan Collar for Dogs, blocked tin, Fig. 1078... ... from	0	3	6
Ditto ditto solid leather ... ... ditto	0	7	6

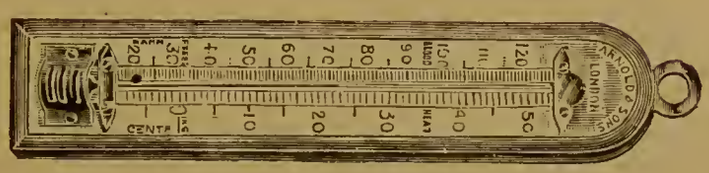


Fig. 1079.

Boxwood Thermometer, plain, Fig. 1079	0	1	0
Ditto ditto polished	0	2	0
Ditto ditto with enamelled tube	0	2	6

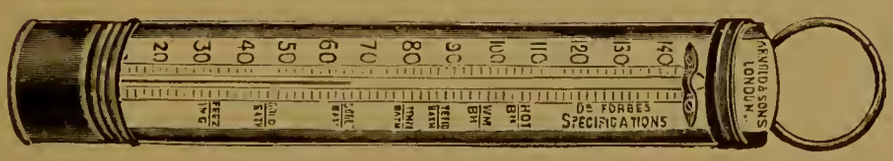


Fig. 1080.

Bath Thermometer, japanned tin, Fig. 1080 ... 1s. 6d., 2s., and	0	2	6
Ditto copper ... ... 4s. and	0	5	0

Fig. 1081.

Thermometer (Six's), maximum and minimum, japanned tin, Fig. 1081	0	5	0

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,, Morphinæ	,,	1	6
,, ,, et Atropinæ	,,	1	9
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Gallons	each	10	6

MADDER	lb.	0	9
Magnes. Citrate Effervescing lb. 1s. 2d.,		1	4
,, Sulph. (Epsom Salts) cwt. 8s. 6d., cask		8	0
,, ,, Black Coloured	cwt.	14	0
,, ,, Blue	,,	14	0
,, ,, Brown	,,	14	0
,, ,, Pink	,,	14	0
,, ,, Red	,,	14	0
,, ,, White	,,	12	0
,, ,, Yellow	,,	14	0

(Any of the above mixed with powdered ginger, if required, or other powders to order.)

Manganes. Oxid. Nig.	...cwt.	14	0
MASS ALOETIC	lb.	2	8

(W., F. & B.'s special contains the medicinal properties of the best Barbadoes Aloes, is of uniform consistence, certain in its action, keeps well, and does not become hard or attract moisture.)

MASS, Alterative	lb.	1	4
,, Condition	,,	1	4
,, Cordial	,,	1	4
,, Cough...	,,	1	8
,, Diuretic	,,	1	4
,, Fever	,,	1	8
,, Tonic	,,	1	4
,, Worm...	,,	1	8
MERCURIAL Charges (see p. 338).			
,, Soap... ...	lb.	1	6
,, ,, Compound	,,	2	0
Methylated Spirit	gal.	3	0

(One gallon only at one time.)

Methylated Finish	gal.	3	1

(Any quantity of this at one time.)

Mist. Ferri Bromid. c Quinina et Strychnina	lb.	2	6

Four fluid drachms contain—

Ferri Bromid.	gr. 20
Quinin. Hydrobrom. ...	gr. 4
Strychninæ	gr. $\frac{1}{8}$

(A valuable tonic preparation, stimulating to the nervous system, useful in nervous irritability or exhaustion.)

Morphinæ Acetas	oz.	7	0
,, Hydrochlor. ...	,,	7	0

	s.	d.
Mylabris ... lb. 3s., pulv.	3	6
MUSTARD, Pure lb. 1s. 1d., cask	1	0
,, for domestic use lb. 1s. 5d., cask	1	4
,, pure ground seed lb. 8d., 9-lb. cask	5	0

(Specially prepared and strongly recommended for Veterinary use.)

NAPHTHA, Rect. ... gal.	6	0

OL. Amberline ... ... gal.	2	6
,, Anisi ... oz. 8d., lb.	8	0
,, Cajeput ... ... oz.	0	4
,, Camph. Essent. ... lb.	1	0
,, Cantharadis ... ... ,,	3	0
(W., F., B. & T.'s special.)		
,, Carbolized ... ... ,,	1	0
,, Carui Ang. ... ... ,,	7	0
,, Caryoph Ang. ... oz.	0	3
,, Cocoa Nut ... ... lb.	0	6
,, Chaulmoogræ ... ,,	6	6
,, Colza ... ... gal.	3	0
,, Croton... ... ... oz.	0	5
,, Cymini... ... ... ,,	1	4
,, CYPRUS ... ... lb.	8	0
(A combination of essential oils for flavouring powders, mixtures, &c.)		
,, Eucalypti ... lb. 2s. 2d.,	3	3
,, Filicis Maris lb. 7s., oz.	0	6
,, Juniperi Lign. ... lb.	2	4
,, Lauri ... ... ,,	1	6
,, Lini (English pressed) gal.	2	6
,, Menth. Pip. ...oz. 8d., lb.	7	0
,, Morrhuæ (Cod Liver Oil) ... ... gal.	4	6
(For Veterinary use.)		
,, Olivæ ... ... ,,	6	0
,, Origani ... ... lb.	2	6
,, Palmæ... ... ... ,,	0	7
,, Picis ... ... ,,	0	3
,, Rapii ... ... gal.	3	0
,, Rhodii... ... ... oz.	6	0
,, Ricini (Castor Oil) ... lb.	0	6
,, Sabinæ (Exotic) ... oz.	0	6
,, Sinapis ... ... lb.	0	9
,, Staphisagriæ ... ... ,,	7	0
,, Succini ... ... ,,	1	7
,, Terebinth Rect. lb. 7d., gal.	4	0
,, *Train* ... ... ,,	2	6
,, Vegetable ... ... ,,	3	0
,, Viride ... ... lb.	1	0
,, *Whale* ... ... gal.	3	0
OPIUM TURC. lb. 12s., 13s., oz.	1	0
,, Standardised oz. 1s., lb.	14	0
(In coarse powder for tincture.)		
OLEATE Arsenic ... ... lb.	3	0
,, Copper ... ... ,,	3	6
,, Mercury lb. 10% 3s., 20%	3	9

	s.	d.
PARAFFINUM Molle lb. 5d., cwt.	42	0
Perchloride of Mercury Points per box	1	0
(Specially recommended for Quittors, &c.)		
Petrol. Barb. ... ... lb.	0	7
Petrolatum ... lb. 5d., cwt.	42	0
(An amber-coloured product. Used as a basis for ointments. A cheap and efficient substitute for lard and the more expensive petroleum product.)		
Phenazonum ... ... oz.	0	9
Pigment. Nigrum ... ... lb.	1	8
Pix Burgund. ... ... ,,	0	6
,, Liquida ... ... ,,	0	6
,, Nigra ... ... ,,	0	3
Plumbi Acetas lb. 4d., Pulv.	0	6
Podophyllin ... ... oz.	1	2
Potas. Bicarb. Pulv. ... ... lb.	0	6
,, Bitart. ... ... ,,	1	0
,, Bromidum ... ... ,,	2	3
,, Carbonas ... ... ,,	0	5
,, Chloras ... ... ,,	0	6½
,, Iodidum ... ... ,,	12	3
,, Nitras. Pulv. lb. 4d., cwt.	32	6
,, Permang. Cryst. oz. 2d., lb.	0	9
,, Sulphurata ... ... ,,	0	9
Pulv. Acaciæ ... 1s. 9d., 2s. 9d.,	3	9
,, Acid Boric ... ... lb.	0	5
,, Aloes Barb. lb. 1s. 6d., 2s.,	2	6
,, ,, Cape ... ... lb.	0	11
,, *Alterative* ... ... ,,	0	7
,, Alum ... ... lb. 2d.,	0	3
,, Anisi ... lb. 8d., coarse	0	6
,, Antimonialis ... ... lb.	1	6
,, Antim. Tart. ... ... ,,	1	3
,, Arecæ ... ... ,,	0	10
,, Aromaticus ... ... ,,	1	0
(A combination of spices and aromatic seeds.)		
,, Æruginis ... ... ,,	1	8
,, Asafœtid. ... ... ,,	2	0
,, Boracis ... ... ,,	0	4
,, *Calabar Bean* ... ... ,,	2	0
,, Calumbæ ... ... ,,	1	4
,, Canthar. ... ... ,,	3	4
,, Capsici ... ... ,,	0	11
,, Carui ... ... ,,	0	8
,, Caryoph... ... ... ,,	1	3
,, Cascarillæ ... ... ,,	1	2
,, Cassiæ ... ... ,,	1	0
,, Catechu... ... ... ,,	0	10
,, *Cattle Compound* ... ,,	0	6
,, Cinchonæ ... ... ,,	1	6
,, Colchici ... ... ,,	1	6
,, *Condition* ... ... ,,	0	7
,, Coriand.... ... ... ,,	0	8
,, *Cough* ... ... ,,	0	10
,, Croton. ... ... ,,	2	0
,, Cupri Sulph. ... ... ,,	0	5
,, Curcumæ ... ... ,,	0	9

		s.	d.
Pulv. Cymini	lb.	0	8
,, Diapentæ	,,	0	5
,, Digitalis...	,,	1	0
,, Enulæ	,,	1	0
,, Ergotæ	,,	4	9
,, Euphorb.	,,	1	3
,, Ext. Hæmatoxyli ...	,,	1	6
,, Ferri Sulph. (Exsic. 8d.)	,,	0	4
,, Fœniculi	,,	0	10
,, Fœnugrec. lb. 4d., coarse		0	3
,, *Fuller's Earth*	lb.	0	2
,, Gallæ	,,	1	2
,, Gentian.... lb. 7d., coarse		0	5
,, Glycyrrh. ,, ,,		0	5
,, Helleb. Alb.	lb.	0	6
,, *Horse Spice*	,,	0	6
,, Ipecac.	,,	16	6
,, Jalapæ	,,	1	2
,, Bac. Junip.	,,	0	8
,, ,, Lauri	,,	0	8
,, Lini	cwt.	18	0
,, Magnes. Sulph.... ...	,,	12	0
,, Mylabris	lb.	3	6
,, Myrrhæ ... ... lb. 2s. 6d.,		3	6
,, Nucis Vom.	lb.	1	0
,, Opii	,,	14	6
,, Pimentæ	,,	0	9
,, Potas. Bicarb.	,,	0	6
,, ,, Chlor.	,,	0	7
,, ,, Nitrat. lb. 4d., cwt.		32	6
,, Cort. Quercus	lb.	0	10
,, Resinæ	,,	0	4
,, Rhei 2s. 6d., 3s. 6d., Opt.		4	6
,, Sapo Castil.	lb.	1	2
,, Scillæ	,,	1	4
,, Sodii Bicarb.	,,	0	3
,, ,, Sulphas Exsic. cwt. 18s.,	,,	0	3
(Double the strength of Crystals.)			
,, Strychninæ	oz.	2	8
,, *Tonic*	lb.	0	7
,, Veratri	,,	0	10
,, *Worm*	,,	3	0
,, Zingib	,,	0	7
,, Zinci Sulph.	,,	0	4
QUININÆ, Sulph. oz. 1s. 11d., 4 oz.		1	10
RESIN, Flav. lb. 3d., Nig. lb.		0	2
Resorcin	oz.	0	7
SACCHAR. Ust.	lb.	0	6
SALICINUM... oz. 1s. 8d.,	,,	24	0
SANTONINUM	oz.	0	11
(A valuable anthelmintic.)			
Sapo Carbolic. cwt. 44s.,	lb.	0	6
,, Mollis (Soft Soap) firkin 14s. 6d., half firkin		7	6

		s.	d.
Sem. Lini Contus.	cwt.	22	0
,, Staphisagriæ	lb.	1	0
SHEEP Ointment	,,	1	2
Sodii Bicarb. Pulv.	,,	0	3
,, Hyposulphit. lb. 3d., cwt.		14	0
,, Salicylas ... oz. 3d., lb.		3	0
,, ,, (*Physiolog. Pure*) oz. 4d.,	,,	4	6
,, Sulphas (Glauber Salts) cwt.		7	6
,, ,, Exsic. cwt. 18s., lb.		0	3
,, Sulphit.	,,	0	3
SOLUTION ALOES ...	,,	0	6
SOL. CHLORAL HYDRAT.	,,	5	3
(One fluid ounce contains one ounce of Choral Hydrat.)			
SOL. PICIS CARBONIS ...	lb.	2	0
,, ,, ,, ...	gal.	12	0
(An improved preparation of Coal Tar, emulsifies with water, and mixes with lard.)			
SOL. RESINATE of COPPER oz. 3d., lb.		1	6
SOL. ZINGIB CONC. ...	,,	4	6
(One part added to five parts of Sp. Vini Rect. will form Essence of Ginger.)			
SP. ÆTHERIS NIT. (·850)	lb.	3	2
,, ,, ,, (·890)	,,	2	8
(Our own distillation.)			
SP. AMMON. AROMAT. ...	,,	2	11
(Our own distillation.)			
,, AMMON. AROMAT. B.P.	,,	3	0
,, Camphor	,,	3	6
,, Hamamelidis	,,	3	2
,, Tar Rect....	,,	0	6
Strychninæ Cryst.	oz.	2	8
Sulphonal	,,	1	7
Sulphur. Iodidum	,,	1	3
,, Præcip lb. 6d., cwt.		52	0
,, Sublim cwt. 17s., cks. 16s., cold.		21	0
,, Vivum	cwt.	14	0
SUPPOSITORIES box of 1 doz.		2	6

(Prepared with pure Alkaloids, easily administered and readily absorbed.)

MORPHIA.

2 gr., 3 gr., and* 4 gr. in each.

MORPHIA AND ATROPIA.

1½ gr. + ½ gr.
2 gr. + ½ gr.

ATROPIA.

¼ gr. and ½ gr. in each.

(Suggested and recommended by Frank W. Somers, Esq., M.R.C.V.S., Leeds (Veterinary Journal), in cases of intestinal diseases generally, particularly Flatulent and Spasmodic Colic, Impaction of the Colon, Enteritis and all those acute diseases where pain can be counteracted by their use. The combination of Morphia and Atropia is specially recommended in cases of Tetanus.)

(Doses to be given according to the age, size, and condition of the animal.)

* These are sent unless another strength is ordered.

		s.	d.
SUPPOSITORIES (Nutrient) for Dogs	per box	1	9
(Each Suppository contains peptonised meat, equal to one drachm of lean beef.)			
Syr. Chloral Hydrat	lb.	1	4
,, Easton's	,,	1	6
,, Papav. Alb.	,,	0	9
,, Rhamni	,,	1	0
TAR Stockholm.	lb.	0	2
Terebene Pur.	,,	1	10
Tereb. Com.	,,	0	6
,, Venet.	,,	0	8
Thioform	oz.	2	6
Tinct. Aconiti (B.P.)	lb.	3	4
,, ,, Fleming's ...	,,	5	8
(N.B.—This preparation is about four times the strength of the Tinct. B.P.)			
Tinct. Aloes Co.	lb.	2	7
,, Arnicæ	,,	3	6
,, Asafœtid.	,,	3	8
,, Belladonnæ	,,	2	11
,, Benzoin. Comp. ...	,,	3	8
,, Calendulæ	,,	3	1
,, Camph. Co.	,,	2	5
,, Cantharidis	,,	3	8
,, Capsici	,,	3	4
,, Catechu	,,	2	9
,, Chloroform, et Morphiæ	,,	3	7
,, Cinchonæ	,,	3	7
,, ,, Co.	,,	3	10
,, Colchici Sem.	,,	2	7
,, Digitalis	,,	2	7
,, Ferri Perchlor. ...	,,	1	7
,, Gentianæ Comp. ...	,,	2	5
,, Hamamelidis	,,	2	7
,, Hydrast. Canadens ...	,,	3	7
(For Ozœna.)			
,, Hyoscyami	,,	3	7
,, Iodi	,,	4	2
,, Lavand. Comp. ...	,,	3	11
,, Myrrhæ	,,	3	10
,, ,, Comp. ...	,,	3	0
,, Nucis Vomicæ ...	,,	3	6
,, OPII (B.P.)	,,	3	1
(Prepared with standardised Powdered Opium.)			
Tinct. Opii Aquos.	,,	2	6
,, OPII CONC.	,,	8	2
(One ounce added to 1½ oz. each of Spirit and Water forms Tincture of Opium.)			
,, Pimentæ	,,	2	9
,, Quininæ	,,	4	2
,, Rhei	,,	2	9
,, Rhois Toxicodend. ...	,,	3	5
,, Zingib.	,,	3	6
,, ,, Fort.	,,	4	8
Treacle...	cwt.	20	0
Tobacco Juice...	gal.	2	6

		s.	d.
UNG. Acid. Boracic ...	lb.	1	2
,, ,, Carbolic ...	,,	1	2
,, Æruginis	,,	1	4
,, Althææ	,,	1	6
,, Astringens	,,	2	0
,, AUGEAN 20% ...	,,	1	3
,, Cantharidis (Vet. Ph.)	,,	3	0
,, Chaulmoogræ ...	,,	3	0
,, Cupri Oleat. ...	,,	1	6
(For Canker in the Ear of the Dog.)			
,, DETERGENS ...	lb.	1	6
(Composition: Solution of Coal Tar and Paraffin. Molle.)			
,, Digestiv.	lb.	1	0
,, EUCALYPTI ...	,,	1	8
(An effective antiseptic dressing.)			
,, Hellebor. Comp. ...	,,	1	6
,, Hyd. Biniodid. ...	,,	2	4
,, ,, Fort	,,	2	5
,, ,, Nitrat. ...	,,	2	0
,, Iodi...	,,	3	0
,, Mylabris	,,	3	0
,, Naphthol Beta ...	,,	2	0
,, PETROLEI CO. ..	,,	1	9
(Composition: Ammoniated Mercury, Solution of Coal Tar and Paraffin. Molle.)			
,, Resinæ	lb.	1	2
,, Sabinæ	,,	2	0
,, Samb. Flor. ...	,,	1	8
,, ,, Virid. ...	,,	1	0
,, Sulph. Co.	,,	1	0
,, VESICANS ...	,,	3	6
(W., F., B. & T.'s special Blistering Ointment.)			
,, Zinci	lb.	1	3
,, ,, Oleat... ...	,,	1	6
VASELINE Vet. ...	5 lb. tins	0	5½
Vinegar, Malt	gal.	3	0
VEGETO Arsenical Fluid (Prof. Tuson) ...	doz. qts.	18	0
WHITE OILS, No. 1 ...	lb.	1	0
(A superior stimulating liniment.)			
White Oils, No. 2	lb.	0	4
(A useful liniment for ordinary use.)			
White Oils, No. 3	lb.	0	4
White Oils, Conc. (see Lin. Album Conc.)			
ZINCI Carb.	lb.	1	2
,, Chlor. lb. 2s., sticks	oz.	0	4
,, Oxid.	lb.	1	0
,, Sulphas lb. 2d.,	cwt.	14	0
,, ,, Pur lb. 4d.,	cwt.	28	0
,, Sulphocarbolas ...	lb.	2	4
,, Tannas	oz.	0	8

Hypodermic Pellets (Veterinary).

Specially prepared for veterinary use. A ready and convenient form for the extemporaneous preparation of subcutaneous injections. In tubes, each containing 12 pellets.

		s. d.	
Atropine ...	$\frac{1}{5}$ grain	1 0	each tube.
Cocaine ...	1 ,,	1 4	,,
Do. ...	3 ,,	2 2	,,
Ergotinine ...	$\frac{1}{24}$,,	2 0	,,
Morphine ...	1 ,,	0 8	,,
Do. ...	2 ,,	1 3	,,

		s. d.	
Morphine and Atropine	2 grain, $\frac{1}{5}$,,	1 8	each tube.
Physostigmine	1 ,,	4 0	,,
Pilocarpine ...	1 ,,	2 0	,,
Strychnine ...	$\frac{1}{2}$,,	0 9	,,

Veterinary Case complete, containing one tube each of the following pellets:—Atropine, Cocaine, Morphine, Morphine and Atropine, Physostigmine, and Strychnine, 16s. each.

Tablets (for Antiseptic Solution).

Two Tablets dissolved in a pint of water will form a solution containing one part of Perchloride of Mercury in 2,000 parts, an excellent antiseptic solution for injections and also for treating superficial wounds, &c. Price—6d. per tube, or in bottles containing 100, 1s. 1d.

Cutlery, &c.

Fig. 1082.

		£	s.	d.
Table Knives (Arnold & Sons'), in bone handles ...	per doz.	0	12	0
Ditto ditto ditto second quality ...	ditto	1	10	0
Ditto ditto ditto superior quality, in best ivory handles, Fig. 1082	ditto	2	7	6

Fig. 1083.

Dessert Knives (Arnold & Sons'), in bone handles ...	per doz.	0	10	6
Ditto ditto ditto second quality ...	ditto	1	7	6
Ditto ditto ditto superior quality, in best ivory handles, Fig. 1083	ditto	1	17	6

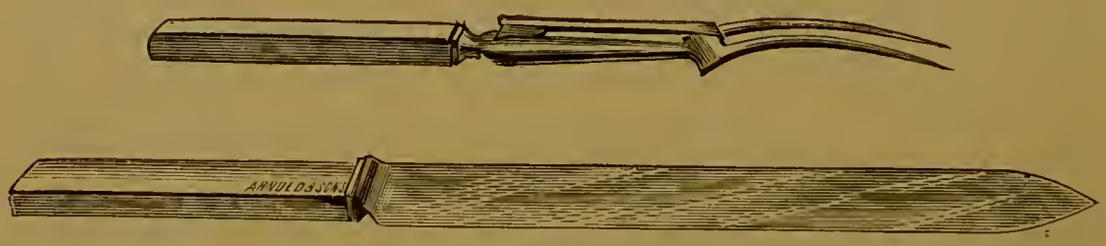

Fig. 1084.

Carving Knife and Fork (Arnold & Sons'), second quality	per pair	0	10	6
Ditto ditto ditto superior quality, in best ivory handles, Fig. 1084	ditto	0	15	0

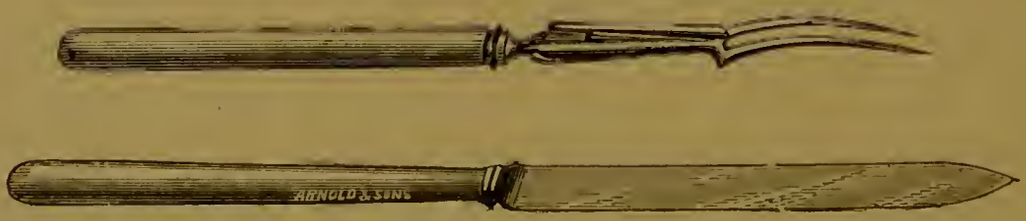

Fig. 1085.

Poultry Carvers, second quality	per pair	0	10	6
Ditto ditto superior quality, in best ivory handles, Fig. 1085	ditto	0	14	0

ACTUAL SIZES.

Fig. 1086. Fig. 1087. Fig. 1088. Fig. 1089. Fig. 1090. Fig. 1091.

			£	s.	d.
Razor, hollow ground,	white handle, Fig. 1086	... ...	0	1	0
Ditto ditto	black ditto, Fig. 1087	... ...	0	1	0
Ditto ditto	black or white handle, Fig. 1088	... ...	0	2	0
Ditto ditto	black handle, Fig. 1089	... ...	0	2	6
Ditto ditto	ivory ditto, Fig. 1089	... ...	0	5	0
Ditto ditto	black ditto, Fig. 1090	... ...	0	3	0
Ditto ditto	ivory ditto, Fig. 1090	... ...	0	5	0
Ditto ditto	black ditto, Fig. 1091	... ...	0	3	6
Ditto ditto	ivory ditto, Fig. 1091	... ...	0	5	0

ACTUAL SIZES.

Fig. 1092. Fig. 1093. Fig. 1094. Fig. 1095. Fig. 1096.

					£	s.	d.
Razor, hollow ground,	black	handle,	Fig. 1092	... ...	0	3	0
Ditto ditto	ivory	ditto	Fig. 1092	... ...	0	4	0
Ditto ditto	black	ditto	Fig. 1093	... ...	0	3	0
Ditto ditto	ivory	ditto	Fig. 1093	... ...	0	5	0
Ditto ditto	black	ditto	Fig. 1094	... ...	0	3	6
Ditto ditto	ditto	ditto	Fig. 1095	... ...	0	3	6
Ditto ditto	ivory	ditto	Fig. 1095	... ...	0	5	6
Ditto ditto	ditto	ditto	Fig. 1096	... ...	0	6	6

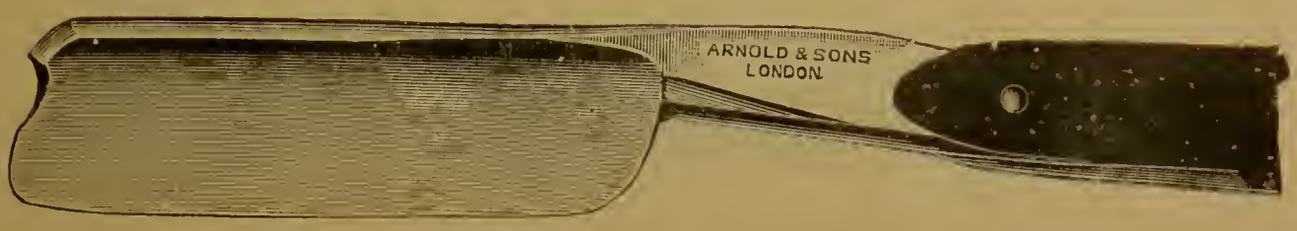

Fig. 1097. Actual size.

	£	s	d.
Razor, hollow ground, ivory handle, for moustache, Fig 1097 ...	0	3	0

Fig. 1098.

Razor Strop, buff, 19½ in. by 1½ in., Fig. 1098	0	1	0
Ditto leather, 19½ in. by 1½ in.	0	1	6
Ditto ditto 22 in. by 2 in., superior	0	2	0

Fig. 1099.

Razor Strop, canvas, 19½ in. by 2¼ in., superior	0	3	6
Ditto ditto and Russia leather, 18½ in. by 1⅞ in., very superior, Fig. 1099	0	6	6

Fig. 1100.

Razor Strop, 12 in., Fig. 1100...	0	1	0

Fig. 1101.

	£	s.	d.
Razor Strop, 13 in., Persian leather and real horse hide, Fig. 1101	0	1	6

Fig. 1102.

Razor Strop, 13 in., solid leather, calf finishing side, Fig. 1102 ...	0	2	0

Fig. 1103.

Razor Strop, Fig. 1103...	0	2	0

Fig. 1104.

Razor Strop, 13 in., red leather case, Fig. 1104	0	2	3

Fig. 1105.

	£	s.	d.
Razor Strop, 13 in., leather covered handle, Fig. 1105	0	2	6

Fig. 1106.

Razor Strop, Fig. 1106... ... ... 2s. 6d., 3s. 6d., 4s. 6d. and	0	5	0

Fig. 1107.

Razor Strop, 13 in., best Persian leather each side, Fig. 1107 ...	0	3	0

Fig. 1108.

Razor Strop, 12 in., calf both sides, Fig. 1108	0	3	0

Fig. 1109.

	£	s.	d.
Razor Strop, 12½ in., French calf cushions, Fig. 1109	0	3	6

Fig. 1110.

Razor Strop, folding, Fig. 1110	0	4	6

Fig. 1111.

Razor Strop, 11½ in., "Army," four sided, Fig. 1111	0	4	6

Fig. 1112.

Razor Strop, 14½ in., calf leather inside, Fig. 1112	0	6	0

Fig. 1113.

	£	s.	d.
Pocket Knife, two-bladed, buck, horn, or ivory handle, Fig. 1113 1s. and	0	1	6

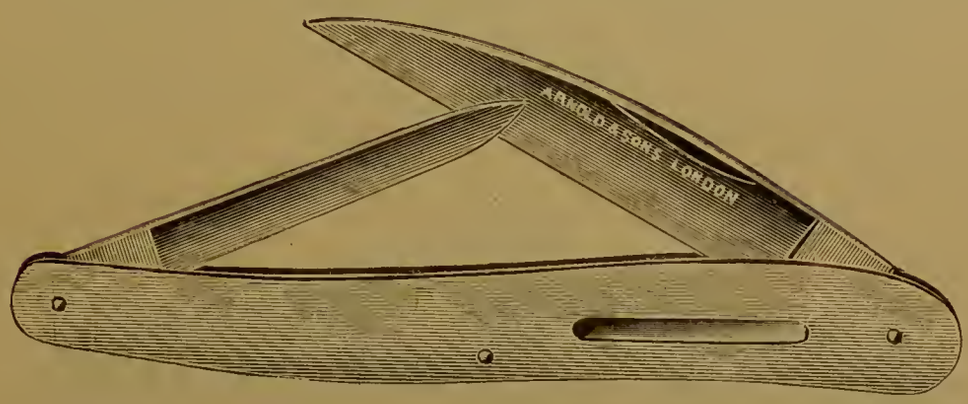

Fig. 1114. Actual size.

Pocket Knife, two-bladed, ivory handle, Fig. 1114	0	2	6

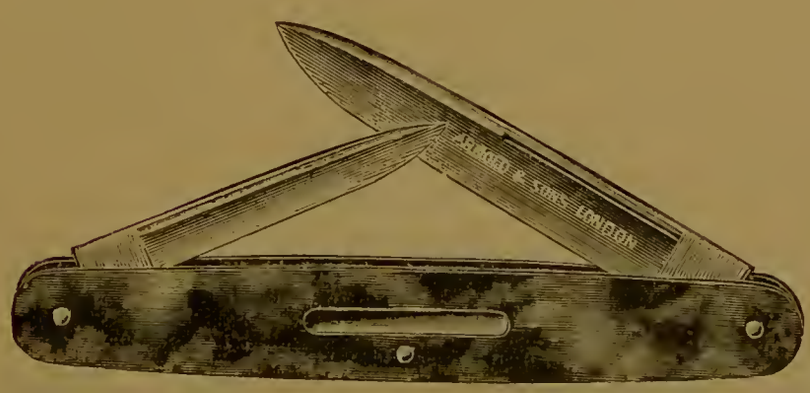

Fig. 1115. Actual size.

Pocket Knife, two-bladed, ivory handle, Fig. 1115	0	2	0
Ditto ditto tortoiseshell or pearl handle, Fig. 1115...	0	2	6
Ditto ditto ditto ditto superior ...	0	3	6

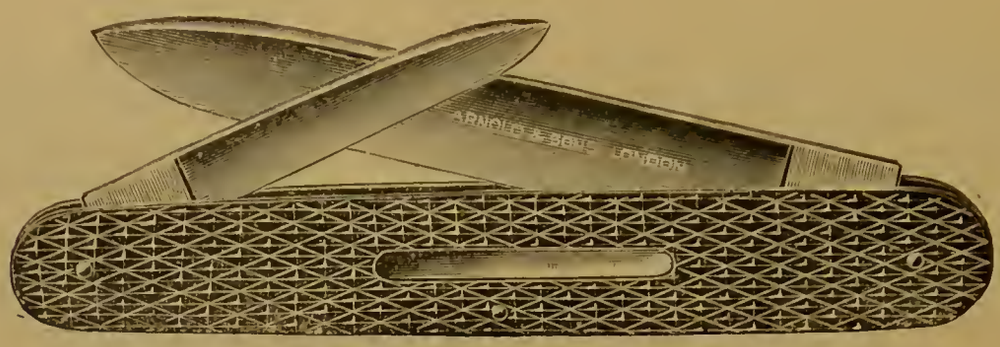

Fig. 1116. Actual size.

	£	s.	d.
Pocket Knife, two-bladed, chequered ebony handle	0	1	6
Ditto ditto ditto ditto superior, Fig. 1116	0	2	6

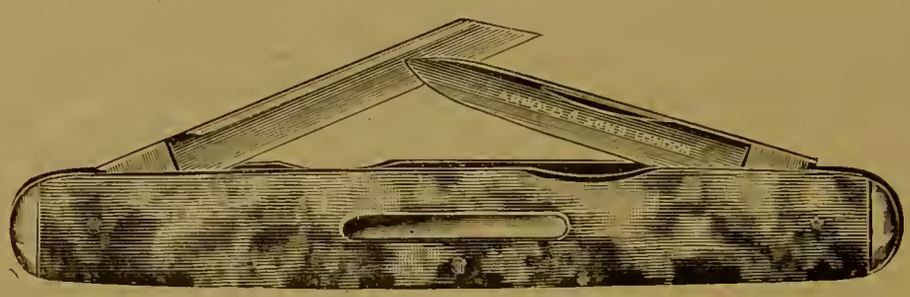

Fig. 1117. Actual size.

Pocket Knife, two-bladed, with German silver ferrules, tortoiseshell or pearl handle, Fig. 1117	0	3	6

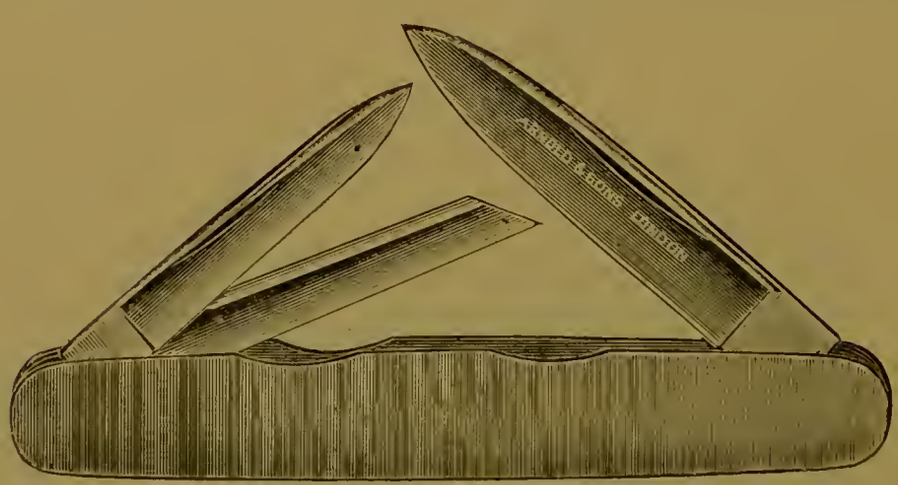

Fig. 1118. Actual size.

Pocket Knife, two-bladed, metal handle	0	2	0
Ditto three-bladed ditto Fig. 1118	0	3	6

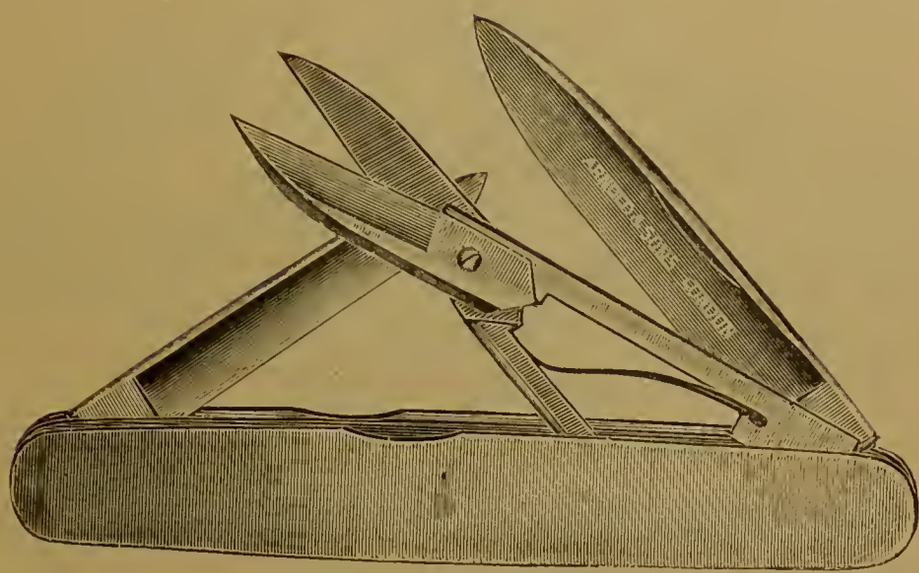

Fig. 1119. Actual size.

	£	s.	d.
Pocket Knife, two-bladed and scissors, metal handle, Fig. 1119 ...	0	4	6

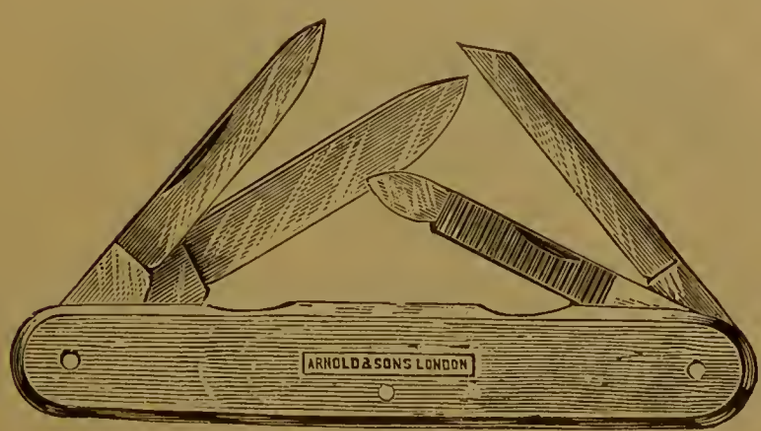

Fig. 1120.

Pocket Knife, two-bladed, ivory handle	0	3	6
Ditto three-bladed ditto	0	4	6
Ditto four-bladed ditto Fig. 1120	0	5	0
Ditto ditto pearl handle, Fig. 1120	0	6	0

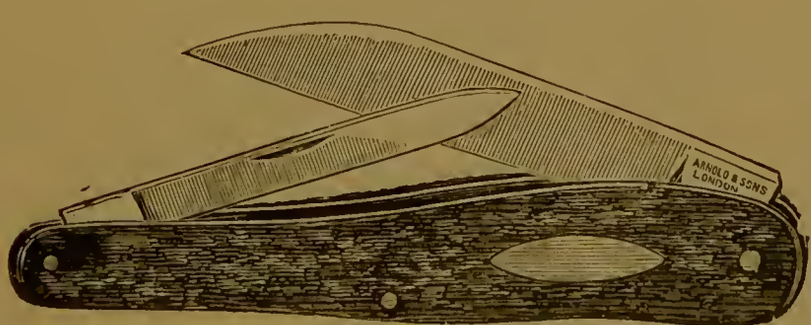

Fig. 1121.

Pocket Knife, two-bladed, buck or ivory handle, Fig. 1121 ...	0	3	6
Ditto ditto pearl or tortoiseshell handle, Fig. 1121...	0	5	0
Ditto three-bladed, buck or ivory handle	0	5	0
Ditto ditto pearl or tortoiseshell handle	0	7	6

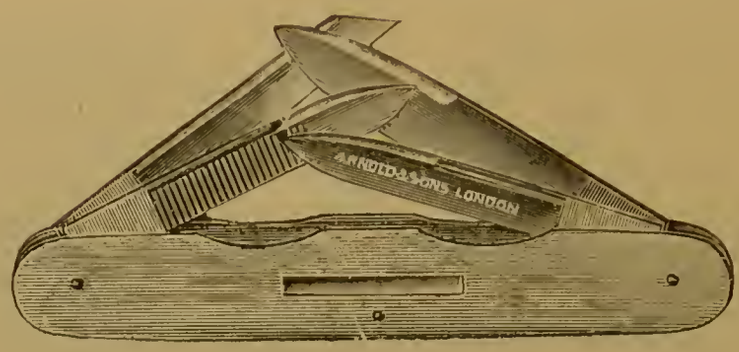

Fig. 1122. Actual size.

	£	s.	d.
Pocket Knife, four-bladed, ivory handle, Fig. 1122	0	5	0

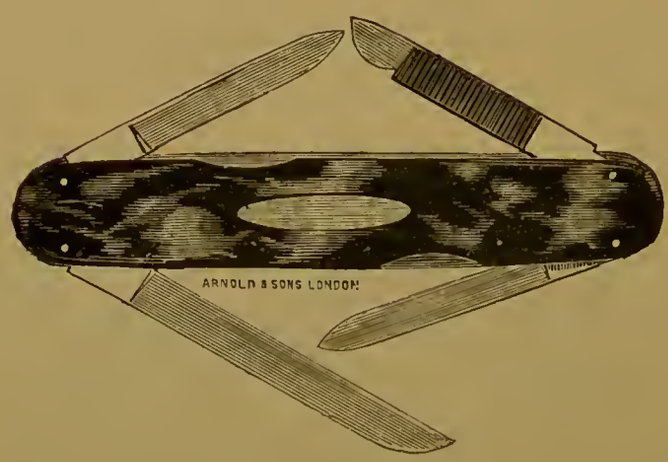

Fig. 1123.

Pocket Knife, four-bladed, very flat, tortoiseshell handle, Fig. 1123							0	5	6
Ditto	ditto	ditto	ivory	ditto	...	...	0	5	6
Ditto	ditto	ditto	pearl	ditto	...	...	0	6	0

Fig. 1124. Actual size

Pocket Knife, two-bladed, button hook and corkscrew, metal handle, Fig. 1124	0	5	0

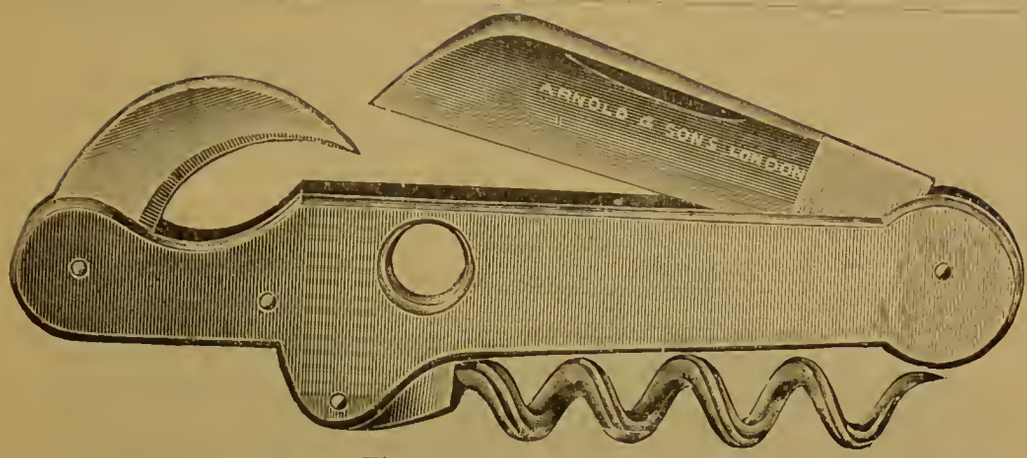

Fig. 1125. Actual size.

	£	s.	d
Pocket Knife, one-blade, cigar cutter, champagne opener and cork-screw, metal handle, Fig. 1125	0	4	0

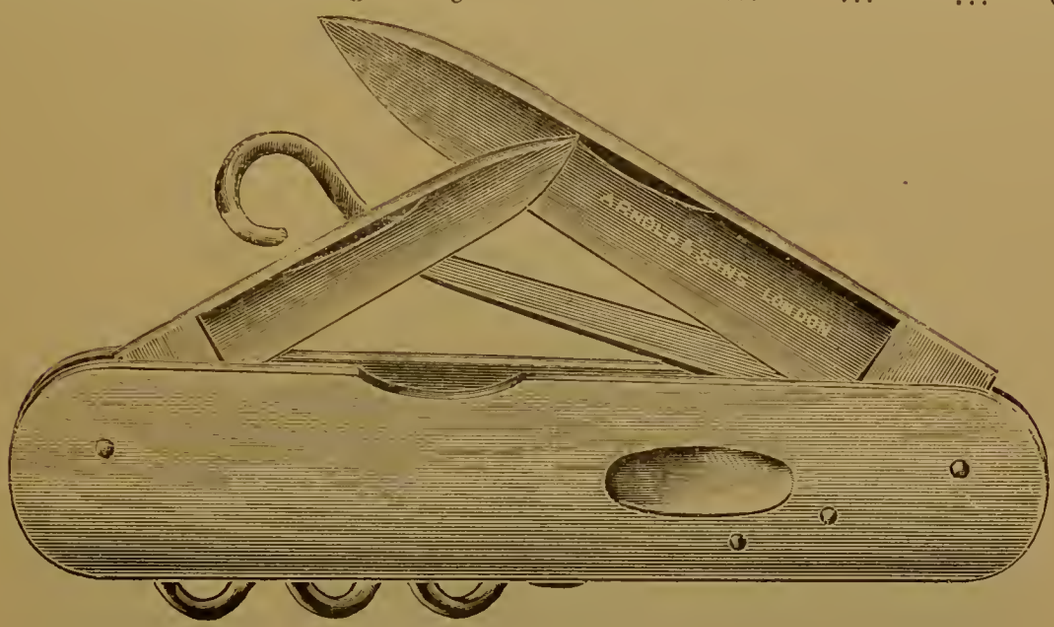

Fig. 1126. Actual size.

Pocket Knife, ivory handle, Fig. 1126	0	6	6

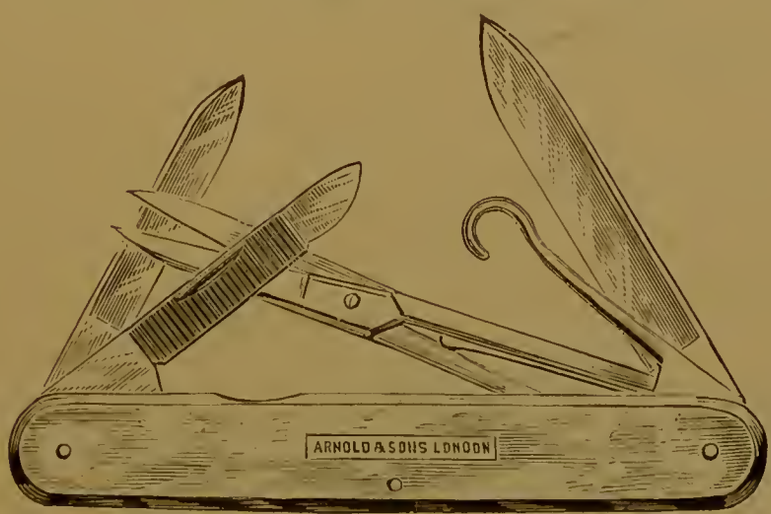

Fig. 1127.

Pocket Knife, ivory handle, Fig. 1127	0	12	6
Ditto pearl ditto Fig. 1127	0	14	0
Ditto two-bladed, nail cleaner, file and corkscrew, tortoise-shell handle	0	9	0
Ditto two extra large blades, scissors and corkscrew, ivory handle	0	15	0

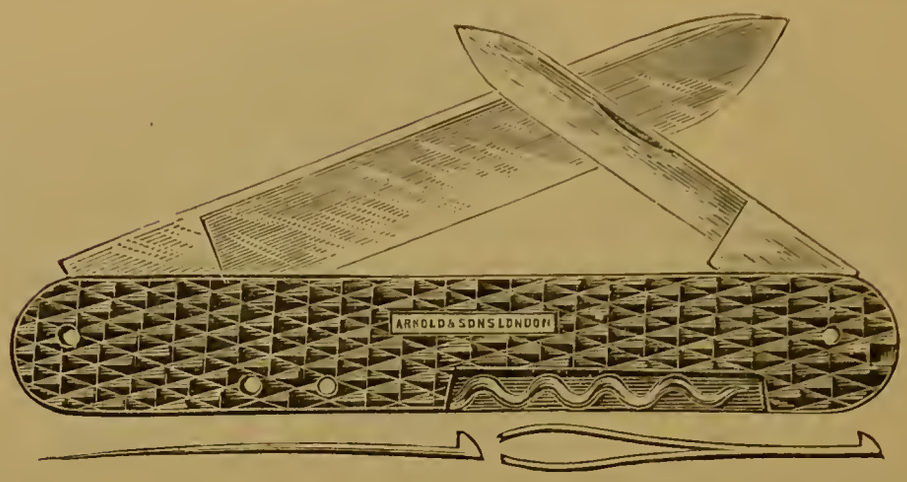

Fig. 1128.

	£	s.	d.
Pocket Knife, chequered ebony handle, Fig. 1128	0	8	6

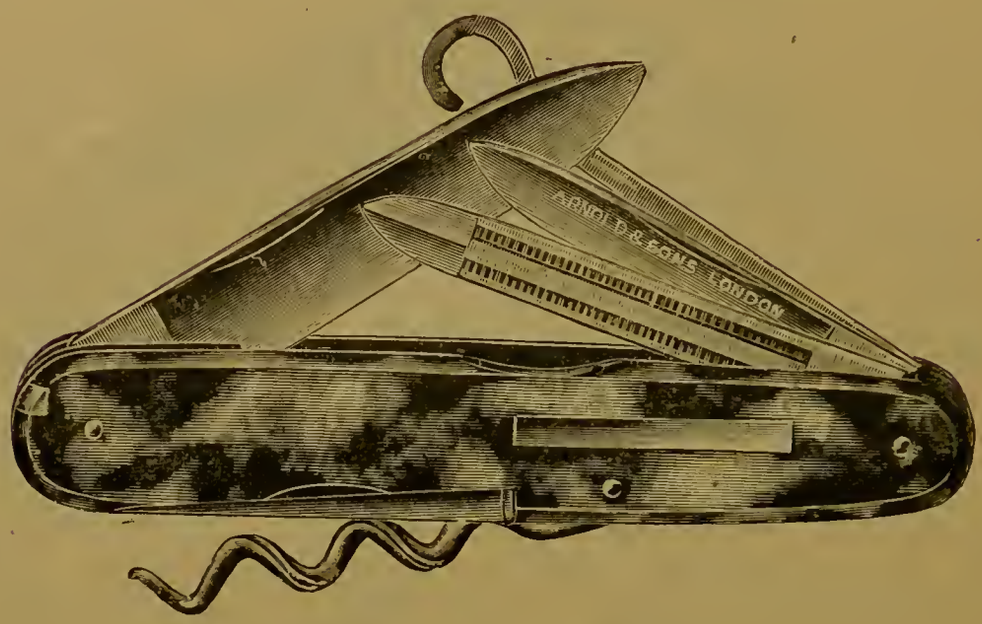

Fig. 1129. Actual size.

Pocket Knife, tortoiseshell handle, Fig. 1129	0	18	0

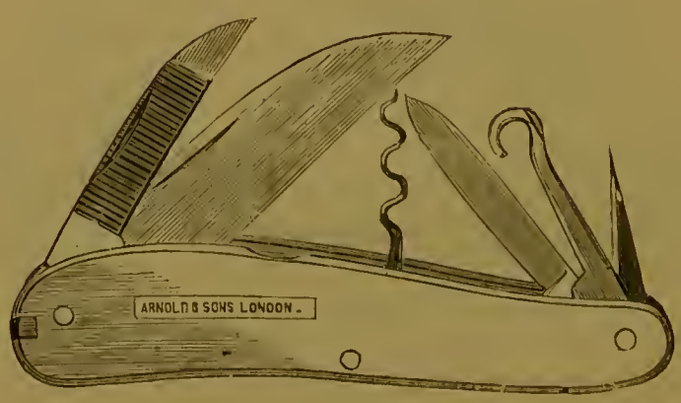

Fig. 1130.

Pocket Knife, ivory handle, Fig. 1130	0	17	6

Fig. 1131. Actual size.

	£	s.	d.
Pocket Knife, Ladies', pearl handle, Fig. 1131	0	5	6

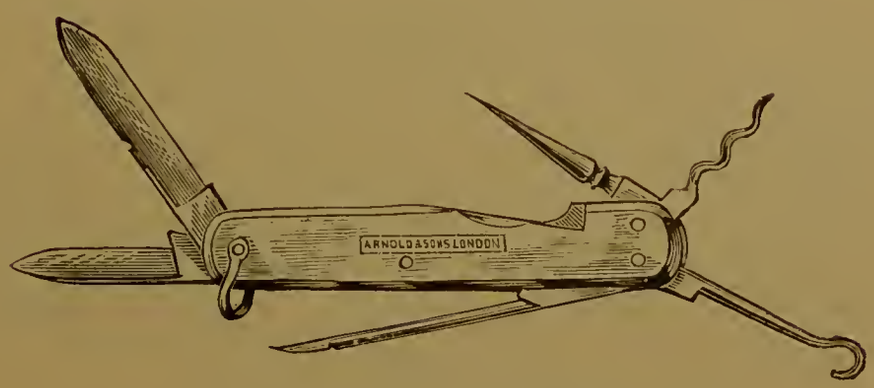

Fig. 1132. Actual size.

Pocket Knife, Ladies', pearl handle, Fig. 1132	0	7	6

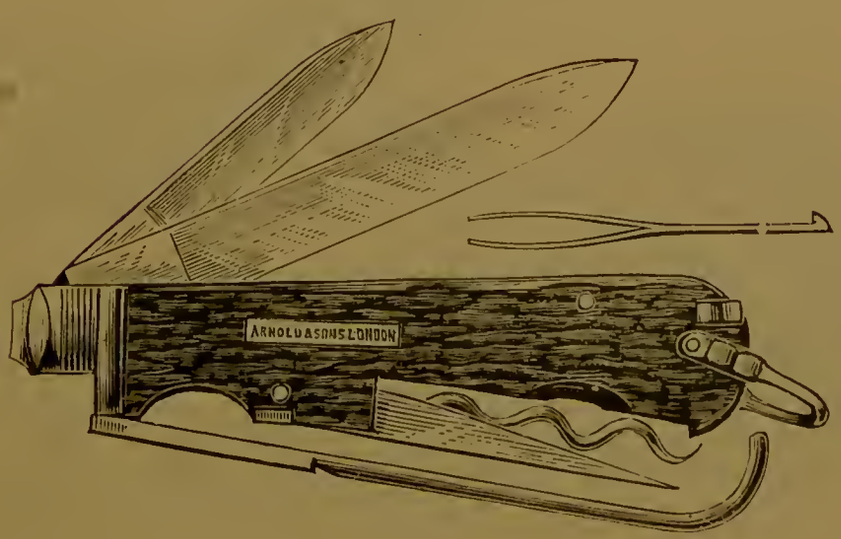

Fig. 1133.

Sporting Knife, stag horn handle, Fig. 1133	0	3	0
Ditto ditto ditto without loop	0	2	6

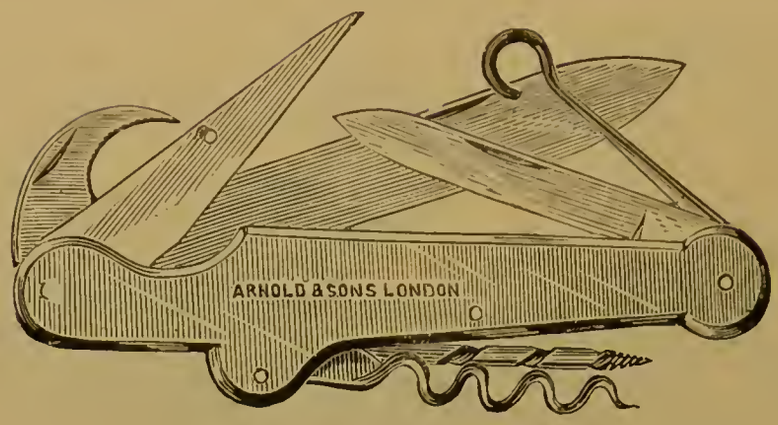

Fig. 1134.

	£	s.	d.
Sporting Knife, metal handle, Fig. 1134	0	8	6

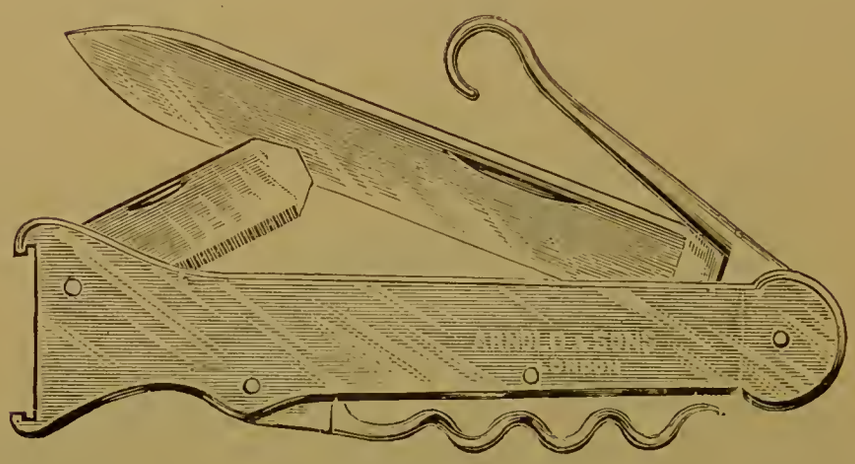

Fig. 1135.

Sporting Knife, metal handle, nickel-plated, Fig. 1135	0	8	6

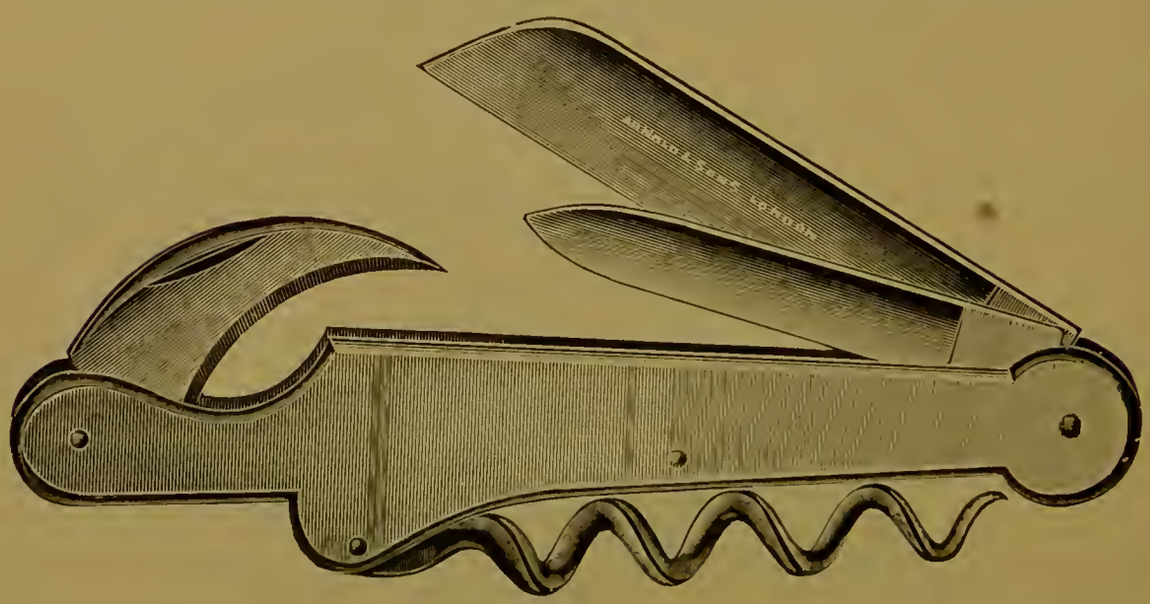

Fig. 1136. Actual size.

Sporting Knife, metal handle, one-blade	0	3	0
Ditto ditto ditto Fig. 1136	0	4	0
Ditto ditto ditto superior, Fig. 1136	0	8	6

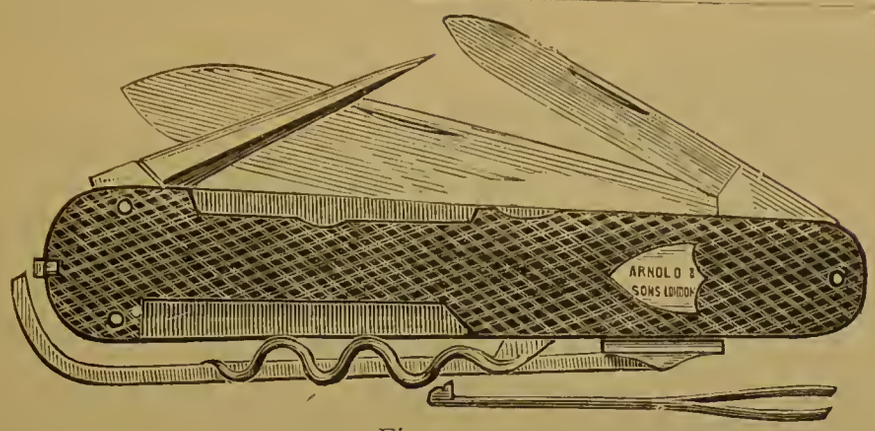

Fig. 1137.

	£	s.	d.
Sporting Knife, chequered horn handle, Fig. 1137	0	18	6

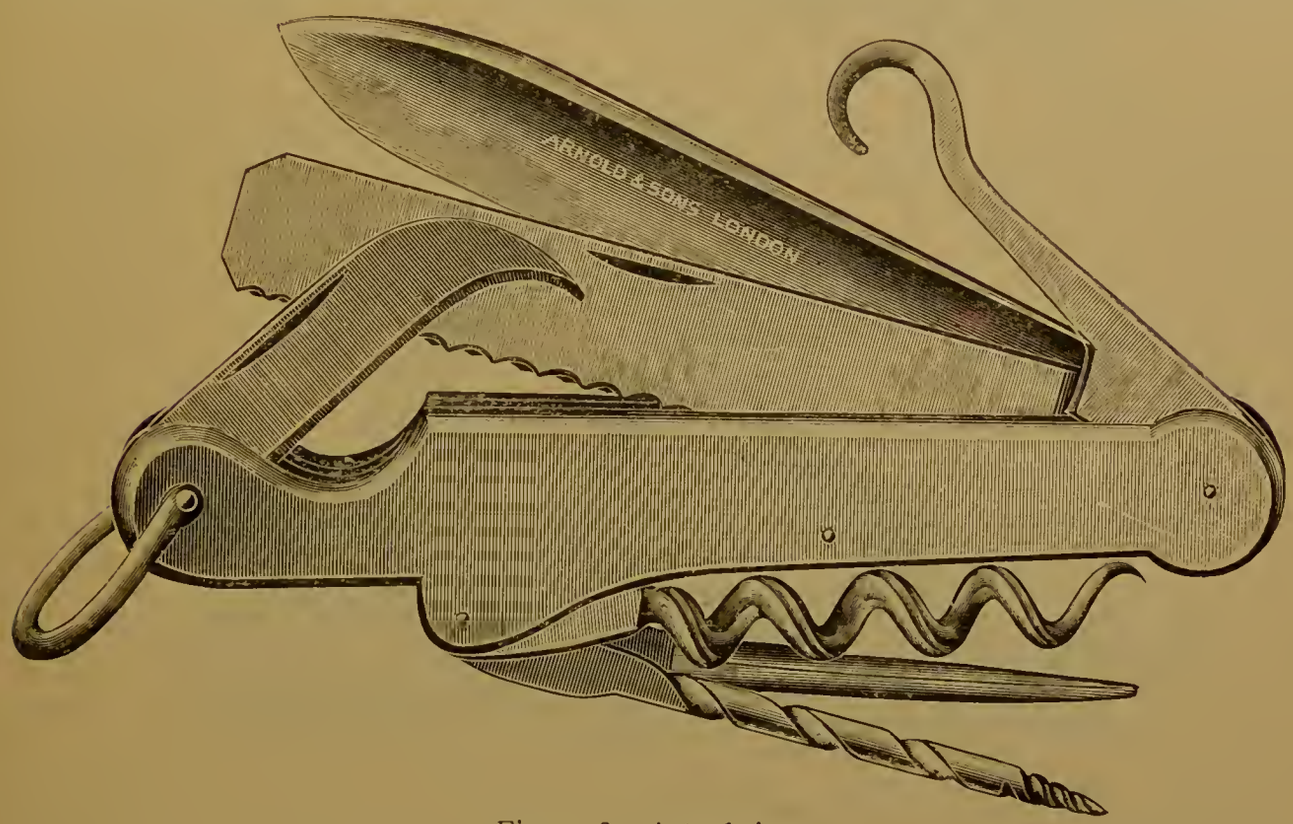

Fig. 1138. Actual size.

Sporting Knife, metal handle, Fig. 1138	0	12	6

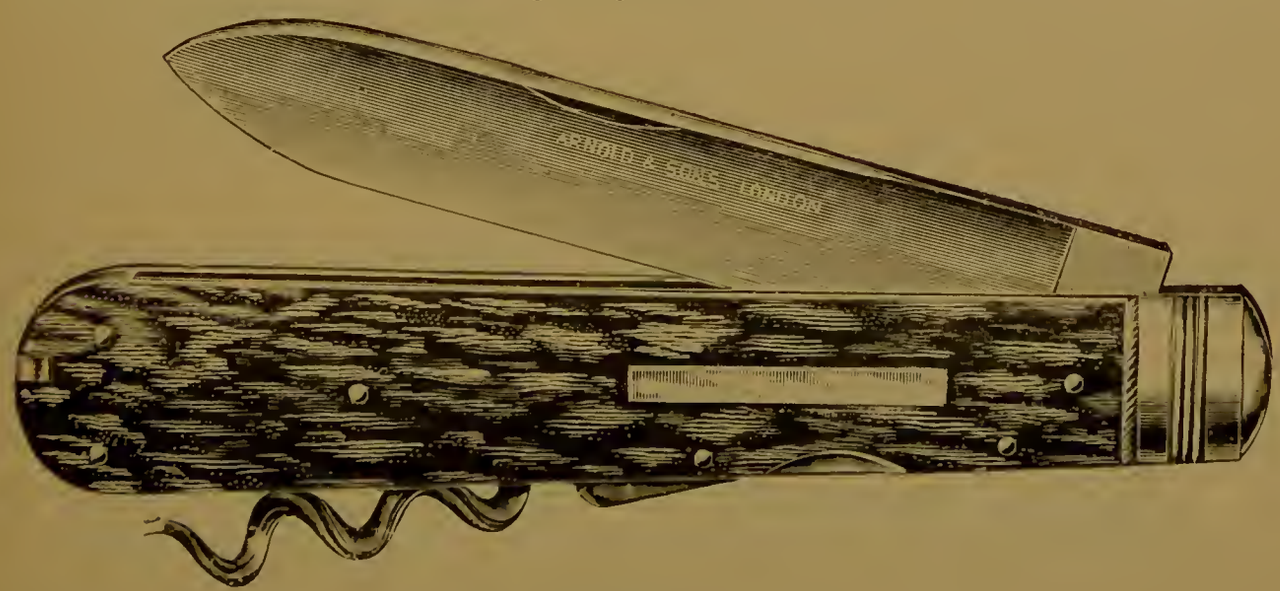

Fig. 1139.

Sporting Knife, with 4-in. blade and lock back, stag handle, Fig. 1139	0	12	6

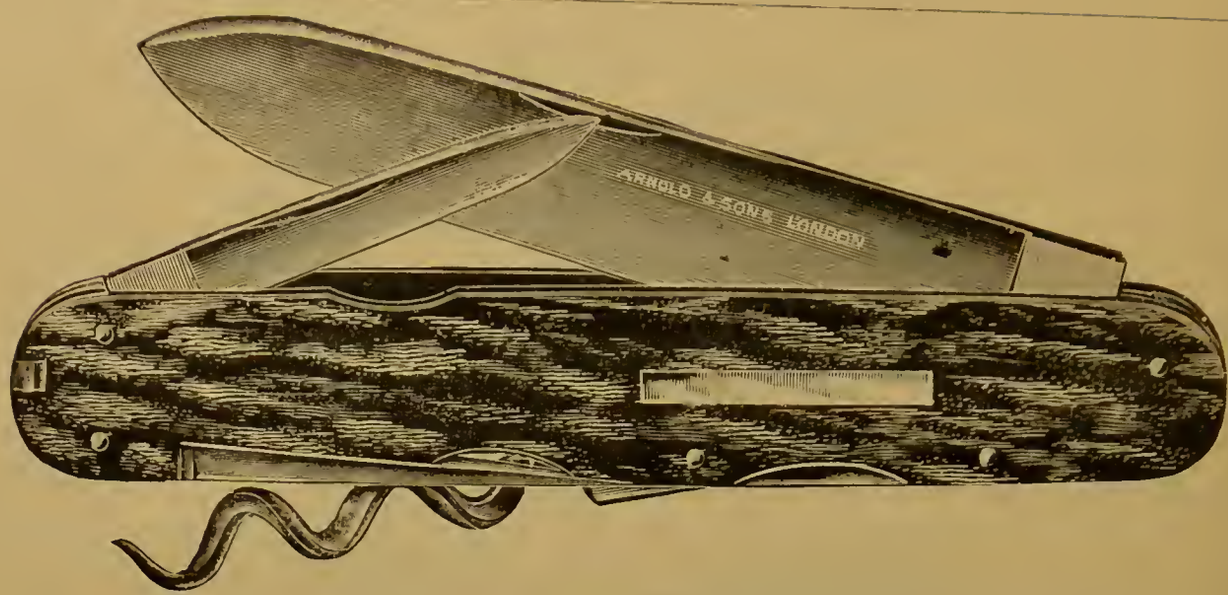

Fig. 1140.

	£	s.	d.
Sporting Knife, with 4-in. blade and lock back, stag handle, Fig. 1140	0	15	0

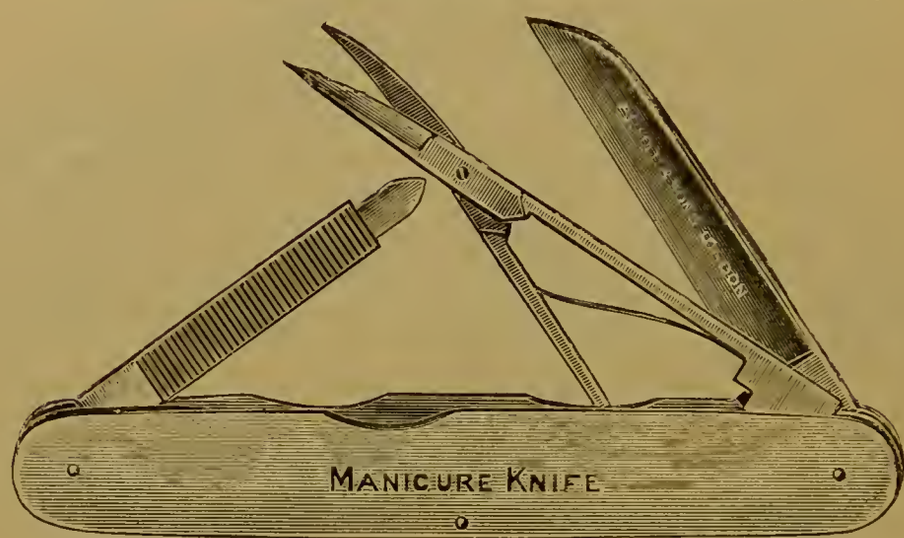

Fig. 1141. Actual size.

Manicure Knife, ivory handle, Fig. 1141	0	7	0

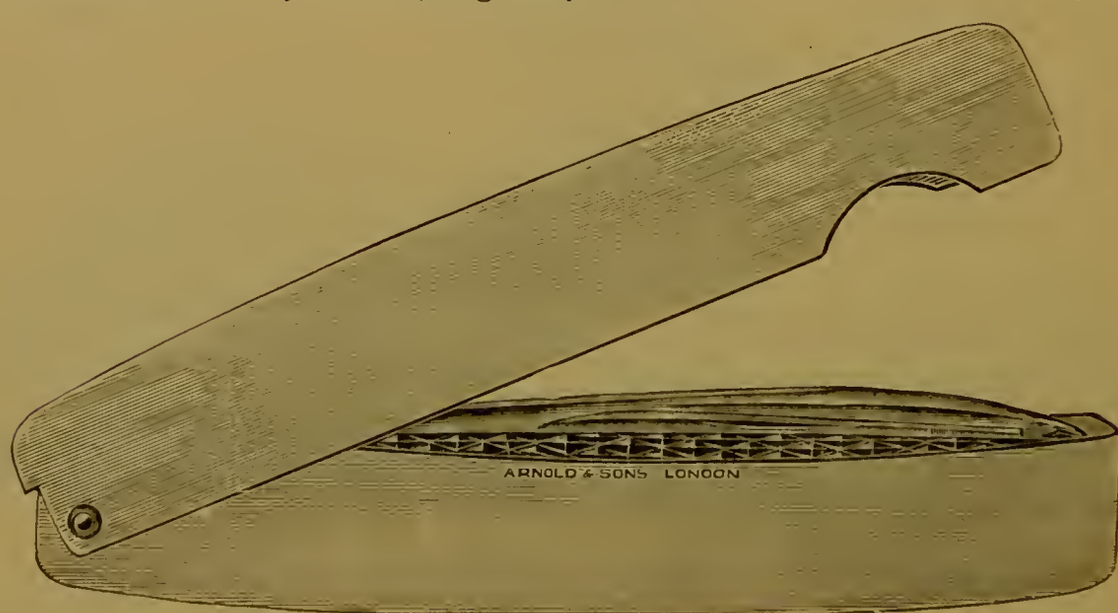

Fig. 1142.

Case, celluloid, for pocket knives, assorted sizes, Fig. 1142 each	0	0	9

Fig. 1143.

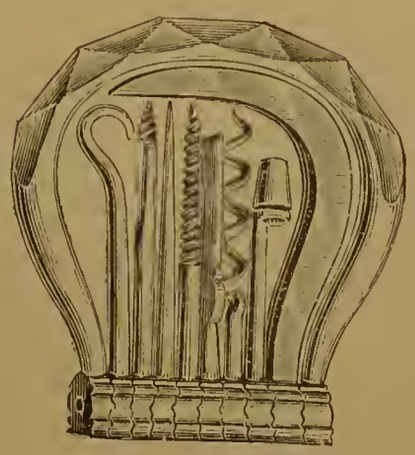

Fig. 1144.

	£	s.	d.
Bowed Instrument, with three instruments	0	2	6
Ditto ditto four ditto	0	3	0
Ditto ditto five ditto	0	3	6
Ditto ditto six ditto Fig. 1143	0	4	0
Ditto ditto eight ditto superior, Fig. 1144 ...	0	7	0

Fig. 1145.

Ladies' Scissors, three sizes, in leather case, Fig. 1145 7s. 6d. to	1	5	0
Ditto four ditto ditto ... ... 10s. 6d. to	1	10	0

Fig. 1146.

Fig. 1147.

Ladies' Scissors, embroidery, Fig. 1146 ... ... 3s. 6d. and	0	4	6
Ditto cutting out, Fig. 1147 ... 2s. 6d., 3s., 4s., and	0	5	0

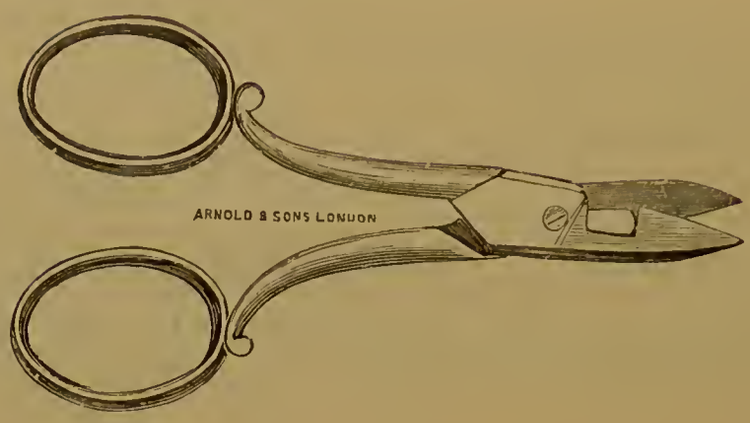

Fig. 1148.

		£	s.	d.
Ladies' Scissors, button hole, Fig. 1148	3s. 6d. and	0	4	6

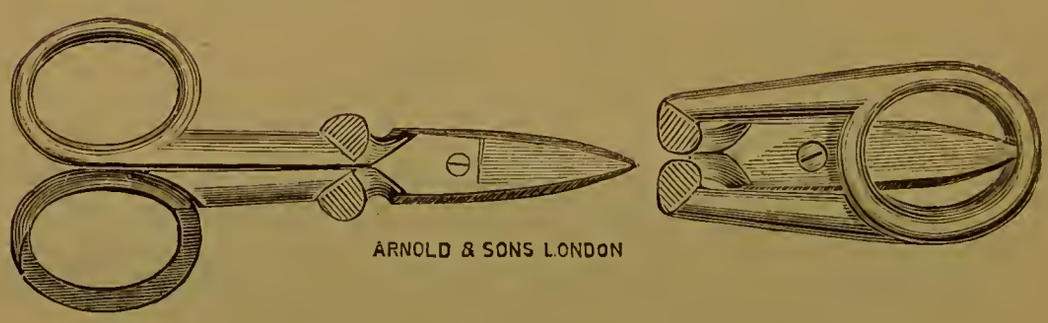

Fig. 1149.

Pocket Scissors, folding, Fig. 1149	1s. 6d., 2s. and	0	4	0

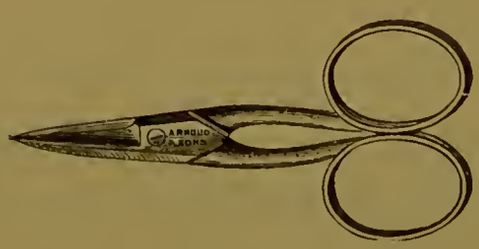

Fig. 1150.

Nail Scissors, straight, Fig. 1150 ...	1s. 3d., 2s., 2s. 6d. and	0	3	6
Ditto curved	3s. 6d. and	0	4	6

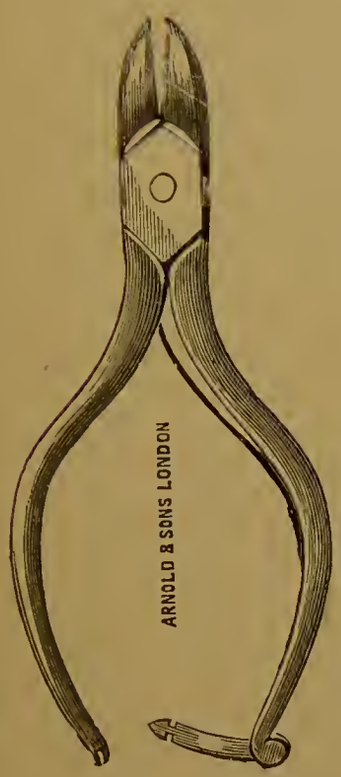

Fig. 1151.

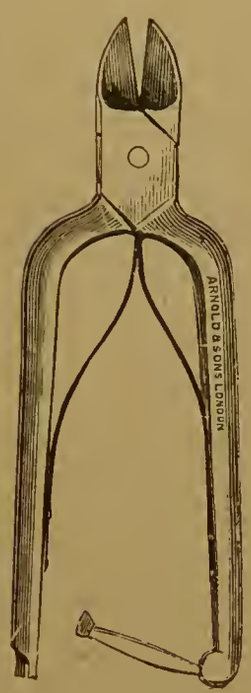

Fig. 1152.

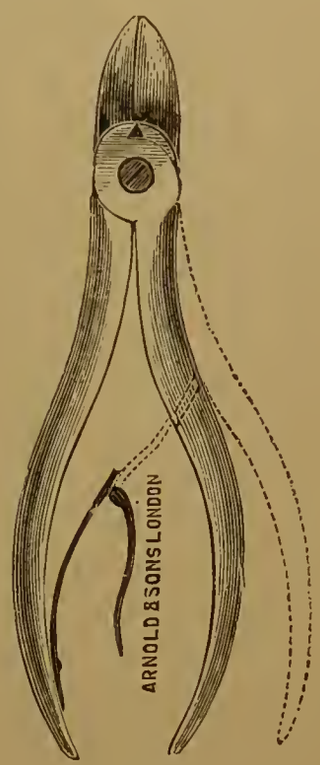

Fig. 1153.

	£	s.	d.
Nail Nippers, Fig. 1151	0	4	0
Ditto improved, Fig. 1152	0	5	0
Ditto ditto with folding spring, superior, Fig. 1153 ...	0	7	6

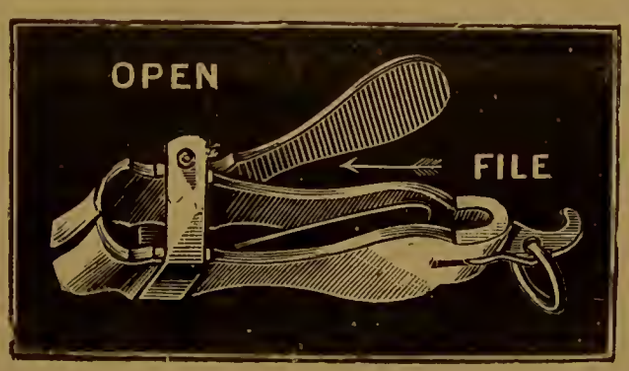

Fig. 1154.

Nail Nipper, with file, Fig. 1154	0	1	6
Nail Trimmer, with file	0	1	0